GW-156

Removal of Wash Bay Effluent Holding Tank Date: 5/2011



Key Energy Services U.S. Highway 64 Truck Yard

Removal of Wash Bay Effluent Holding Tank Remediation of Discovered Hydrocarbon Impacted Area Decommissioning and Closure of Four Wash Bay Sumps

> Latitude North 36 42.256, Longitude West 108 06.872 NE1/4, NE1/4 Sec. 29-T29N-R12W San Juan County, New Mexico Regulatory Jurisdiction: NMOCD



Prepared for:

Key Energy Services 6 Desta Drive, Suite 4300 Midland, TX 79705

Prepared by:

Souder, Miller & Associates 2101 San Juan Boulevard Farmington, NM 87401 District Copy
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SMA Ref # 5121216

INTRODUCTION

On behalf of Key Energy Services, Inc. Souder, Miller & Associates (SMA) has prepared this report describing activities that were completed to remediate a discovered hydrocarbon release associated with a partially buried wash bay effluent storage tank from the wash bays located within the facility. The release was discovered during a Phase II sampling investigation of soils surrounding the wash bay tank on or about May 18, 2011. The investigation by Basin Engineering was conducted to address environmental concerns noted in a Phase I Environmental Site Assessment by others. Figure 1, Vicinity Map, illustrates the location of the site at 5651 U.S. Highway 64, Farmington, NM. The site is located in Unit A (NE ¼, NE ¼) Section 29 Township 29 North, Range 12W, San Juan County, New Mexico.

On June 20, 2011, SMA was requested to evaluate the tank and related area of the yard and prepare a preliminary scope to mitigate the soils impacts discovered during the Phase II sampling. Those impacts ranged from 254 mg/kg Total Petroleum Hydrocarbons, Diesel Range (TPH-DRO) at 2 feet below surface grade (bsg) and 9.55 mg/kg at 6 feet bsg in the north test pit (TP2) to 8,860 mg/kg at 2.5 feet bsg and 476 mg/kg at 6.5 feet bsg in the south test pit (TP1).

SMA personnel viewed the location and, after corresponding with both Key personnel and New Mexico Oil Conservation Division (NMOCD), arranged for Southwest Field Services (SWFS) to initiate a One-Call utility notification in preparation for excavation and removal of the wash tank and impacted soils planned to begin June 28, 2011. A composite soil sample was constructed using aliquots from TP1 and TP2 as well as the adjacent soil stockpiles and submitted to Hall Environmental Analytical Laboratory (HEAL) of Albuquerque, NM for analysis for the RCRA 8 Toxic Metals to allow waste characterization and profiling as a Non-Exempt, Non-Hazardous Waste. As such, the excavated impacted soils could be accepted at the Industrial Ecosystems Inc. (IEI) Land Farm for bio-pile treatment and disposal.

After evaluation of the site using aerial photography, topographic maps and familiarity with the area, depth to groundwater can be assumed to be less than 100 feet bsg. The location and operation of the site are under the jurisdiction of the NMOCD. NMOCD Guidelines for Remediation of Leaks, Spills, and Releases establish action levels for constituents of concern where the depth to groundwater is less than 100 feet bsg: 10 parts per million (ppm) Benzene, 50 ppm total BTEX (Benzene, Toluene, Ethyl-Benzene, and Xylenes) and 100 ppm Total Petroleum Hydrocarbons (TPH). Under NMOCD jurisdiction, remediation of releases is frequently performed through excavation of impacted soils to the extent of the release where levels of impact are less than the action levels or to where further excavation is infeasible due to safety concerns, the presence of competent bedrock, or stability threats to existing structures.

FIELD ACTIVITIES

Previous to SWFS and SMA beginning excavation on June 28, 2011, Key personnel had removed the remaining liquids from the wash bay holding tank and transported for disposal. One—Call notification was given and the absence of underground utilities confirmed. The Site Health and Safety Plan was discussed and acknowledged by SWFS, SMA, and Key yard personnel. The tank atmosphere was tested for explosive vapors and oxygen levels using the Key LEL/O₂ meter and found to be within safe limits. Surface equipment surrounding the tank was removed for later destruction and metals recycling, and excavation commenced at the previously excavated TP2 north of the tank. Excavation was limited to the north and west areas around the tank until a Super Sucker vacuum truck and crew could be available from IEI to complete sludge removal and rinsing of the tank. Cutting up the double-walled 12 foot by 12

foot steel tank was planned to take place on the site to facilitate hauling for scrap metal recycling. The IEI truck and crew arrived the afternoon of June 28, rechecked the tank atmosphere and removed the remaining sludge from the tank, transporting it to the IEI Land Farm.

On June 29, 2011, after the daily tailgate safety meeting with SWFS and SMA personnel, under the supervision of SMA, SWFS continued excavating on the north and west sides of the tank. A bench was excavated on the northwest side of the tank to a depth of approximately four feet below surface grade (bsg). SMA personnel collected soil samples for field screening for total petroleum hydrocarbons (TPH) with a Petroflag® sampling kit. A total of five samples were collected from the excavation of the northwest side of the tank for field screening, three from the bottom and one each from the east and west side walls. All five were combined in a composite for field screening of the 18 foot by 16 foot area. Based on the field screening result of over 243 ppm TPH, additional excavation was planned for the next day. A summary of field screening results in included in Table 1, Summary of Petroflag® Field Screening Results. Soil sample locations are illustrated on Figure 2, Key Energy Yard, Excavation Diagram, dated 6/30/11-7/1/11. Photographs of the excavation activities are included in Appendix A.

Excavation continued on June 30, 2011, on the south and east sides of tank. After sufficient soil was removed from the around the tank, SWFS removed the tank from the excavation and set it aside pending cutting up. SMA personnel collected one five point composite soil sample from beneath the tank at approximately seven feet bsg for Petroflag® field screening. Another five point composite sample was constructed from the north bench at a depth of 6 feet. A third composite was constructed from three aliquots from the east wall of the excavation. At this point the entire excavation was approximately 37 feet wide and 80 feet long with an average depth of seven feet bsg where sandstone bed rock was encountered. The extent of the excavation and soil sample locations are illustrated on Figure 2, Key Energy Yard, Excavation Diagram dated 6/30/11-7/1/11. A summary of field screening results is included in Table 1, Summary of Petroflag® Field Screening Results.

After field screening results indicated that levels were below regulatory standards for TPH, the three composite soil samples were packaged for laboratory analytical confirmation of closure levels. Each sample was placed in a four-ounce glass jar with a Teflon lid gasket, labeled with date and time, sealed with chain of custody evidence tape, and placed on ice for shipment to HEAL for laboratory analysis. The soil samples were analyzed by USEPA SW846 Method 8015 for Diesel Range Organics (DRO)/Gasoline Range Organics (GRO). The initial three composite samples were not analyzed by Method 8021 for BTEX as the area had previously been cleared for those constituents in the initial investigation by Basin Engineering. A summary of the laboratory analyses is included in Table 2, Summary of Laboratory Analyses and the laboratory reports are included in Appendix B. Concurrent with excavation activities, SFWS loaded 262 cubic yards of contaminated soil onto 24 cubic yard tandem super dump trucks for proper disposal at the IEI Land Farm located in Crouch Mesa, New Mexico. SWFS returned with 262 cubic yards of clean backfill material and stock piled the clean soil on the east side of the excavation.

On July 1, 2011, based on the field screening results clearing the northeast and east areas, the excavation was expanded approximately 12 feet to the west and approximately 22 feet to the south. Photographs of the excavation activities are included in Appendix A. On the south and west walls of the excavation, significant staining was consistently observed from approximately 2.5 feet bsg to approximately 8 feet bsg. Sandstone bedrock was encountered at an average depth of 8 feet, limiting the vertical extent of excavation. SMA personnel collected soil samples

for field screening for TPH by Petroflag® to guide the direction and depth of excavation. Figure 3, Key Energy Yard, Excavation Diagram, dated 7/1/11-7/5/11 illustrates the locations where soil samples for field screening were collected. As all field screening results to the south and west continued to be over closure levels, no soil samples were collected for laboratory analysis. SWFS also loaded and transported 252 cubic yards of contaminated soil to IEI for proper disposal and returned with 252 cubic yards of clean backfill material. Disposal documents are included in Appendix C.

Under the direction of SMA personnel, on July 5, 2011, SWFS continued excavating observable impacted soil from the south and southwest sides of the main excavation. Contaminated soil was removed to a depth of approximately eight feet bsg where sandstone bedrock was present. SMA's project manager determined that excavating on the southwest side of the main excavation was to be terminated due to potential safety risks associated with excavating near the edge of the cliff. To document materials not removed in that location, SMA personnel collected soil samples for field screening for total TPH with a Petroflag® as well as samples for laboratory analysis. Figure 3, Key Energy Yard, Excavation Diagram, dated 7/1/11-7/5/11illustrates the locations where the soil samples were collected.

Then three composite soil samples were collected from the main excavation, one from the southeast wall, one from the southwest wall where excavation activities were terminated due to safety concerns and one from the excavation bottom on the southwest side. A summary of the laboratory analyses is included in Table 2, Summary of Laboratory Analyses and the laboratory reports are included in Appendix B. SWFS also loaded and transported 340 cubic yards of contaminated soil to IEI for proper disposal and returned with 330 cubic yards of clean backfill material.

From July 6, 2011 to July 8, 2011, under the supervision of SMA, SWFS expanded the excavation to the west. Hydrocarbon contaminated soil continued to be stockpiled on site for loading and transporting to IEI for proper disposal. The excavation expanded on the north side to approximately 82 feet, and to approximately 94 feet on the south side. During excavation activities various types of solid waste (oil filters, trash, tires), leach lines possibly associated with the wash tank, and a buried fiber glass sump tank and leach lines apparently associated with the sump tank. SMA periodically collected composite soil samples for field screen for TPH. Figure 4, Key Energy Yard, Excavation Diagram, dated 7/6/11, illustrates the final dimensions of the excavation and where the final composite soil samples were collected for field screening. SMA personnel also collected three closure soil samples for laboratory analysis. Two samples were collected from the west wall and one from the bottom of the excavation on the west side. After mixing the aliquots for each composite soil sample, the soil was placed in a four-ounce glass jar with a Teflon gasket in the cap, labeled with date and time, sealed with chain of custody evidence tape, and placed on ice for shipment to HEAL for laboratory analysis and closure confirmation. The soil samples were analyzed by EPA SW846 Method 8021 for BTEX and Method 8015 for Diesel Range Organics (DRO)/Gasoline Range Organics (GRO). SWFS also loaded and transported 1,214 cubic yards of contaminated soil to IEI for proper disposal and returned with 360 cubic yards of clean backfill material.

Figure 5, Key Energy Yard, Excavation Diagram, dated 7/8/11, illustrates the final dimensions of the excavation and where all composite closure soil samples were collected for laboratory analysis and closure confirmation. July 11, 2011 to July 14, 2011, under the supervision of SMA, SWFS loaded and transported 222 cubic yards of contaminated soil to IEI for proper disposal and returned with clean backfill material. As the impacted soil was being loaded and disposed, SWFS also began to backfill the excavation. Prior to placing backfill on top to the

relict flow line associated with the wash bays, SWFS sealed it by square cutting the end and gluing on a PVC end cap.

In total, approximately 2,858 cubic yards of impacted soils were transported to the Industrial Ecosystems Land Farm on Crouch Mesa, near Farmington, New Mexico for bio-pile treatment and disposal.

To backfill the excavation and prevent creation of a soft area subject to subsidence, for each lift, SWFS placed a 1.5 foot lift composed of imported clean fine grained material and then compacted the lift using the back hoe and track hoe. The lift was dampened with water and road base materials composed of larger rocks and gravel was placed onto the lift and then compacted again. This method was continued lift by lift until the entire excavation was backfilled to a depth of approximately six inches bsg. SWFS then placed and compacted a final finish grade lift of one-inch minus road base across the excavation. Photographs of the backfilling and compacting activities are included in Appendix A.

At the direction of Key Energy personnel, in order to decommission and permanently close the wash bay sumps in the building, SMA took two samples of the fluids and sludge remaining in two of the four wash bay sumps in the building. The samples were sent to HEAL for analysis for waste characterization to allow transport and disposal. Subsequently, July 15 through July 16, 2011, under the supervision of SMA, SWFS and IEI cleaned the sumps in the wash bays. The soil, fluids and sludge were removed from each 5' X 8' x 5' to 6' sump by a vacuum truck. After all materials were removed from the sumps, they were steam cleaned to remove any residual hydrocarbon materials. All soil, fluids and sludge removed from the sumps were transported to the IEI facility for proper disposal.

Over the next two days, SWFS backfilled and compacted each sump in each wash bay with one-inch minus road base. Each sump was backfilled to a depth of approximately eight inches below the surface of the surrounding slab. The last eight inches was filled with concrete, packed and the surface smoothed to match the existing concrete slabs. Photographs of the backfilling and compacting activities are included in Appendix A. Disposal documents are included in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases establish action levels for contaminants of concern where the depth to groundwater is less than 100 feet bsg: 10 ppm Benzene, 50 ppm total BTEX, and 100 ppm TPH. Based on laboratory analysis, all of the soil samples collected are below the required NMOCD action levels with the exception of three samples: the two samples collected from the southwest wall of the excavation and one collected from the bottom within the southwest part of the excavation. Excavation was terminated in the area represented by these three samples due to safety risks associated with excavating near the edge of the cliff and to the sandstone bedrock that was encountered at approximately 7.5 to 8 feet bsg. NMOCD allows excavation of impacted soils to be limited by significant safety concerns, the presence of competent bedrock, or stability threats to existing structures. The limitation of the excavation posed by the cliff and by the presence of sandstone bedrock were discussed with and approved by the local NMOCD representative.

The three sumps in three wash bays and the one sump in the shop were cleaned. All soil, fluids and sludge was removed by a vacuum truck and transported to IEI land farm for proper disposal. Each sump was steam cleaned to remove any residual hydrocarbons. Finally, each

sump was abandoned by backfilling and compacting one inch road base until to a depth of approximately eight inches bgs. The last eight inches was backfilled with concrete, packed and the surface smoothed to match the existing concrete surface.

SMA considers no further action to be appropriate to address the discovered hydrocarbon release in the yard nor the decommissioning and abandonment of the wash bay sumps in the building. SMA recommends that the discovered release area be considered closed through the removal and disposal of impacted soils as documented by closure samples taken and analyzed in the laboratory. Further, a copy of this report should be sent to the New Mexico Oil Conservation Division Aztec Field Office for their records.

CLOSURE AND LIMITATIONS

The scope of SMA's services consisted of the performance of a preliminary spill assessment and stabilization, work plan preparation, regulatory liaison, oversight and control of clean-up operations, disposal arrangements and documentation, project and subcontractor management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional hazardous materials management practices.

If there are any questions regarding this report, please contact either Thomas Long or Cynthia Gray at 505-325-7535.

Respectfully submitted,

Thomas J. Long Project Scientist Reviewed by,

Cynthia A. Gray, CHMM Senior Scientist

Figures:

Figure 1, Vicinity Map

Figure 2, Site Diagram dated 6/30/11-7/1/11

Figure 3, Site Diagram dated 7/1/11-7/5/11

Figure 4, Site Diagram dated 7/8/11

Tables:

Table 1, Summary of Petroflag Field Screening Results

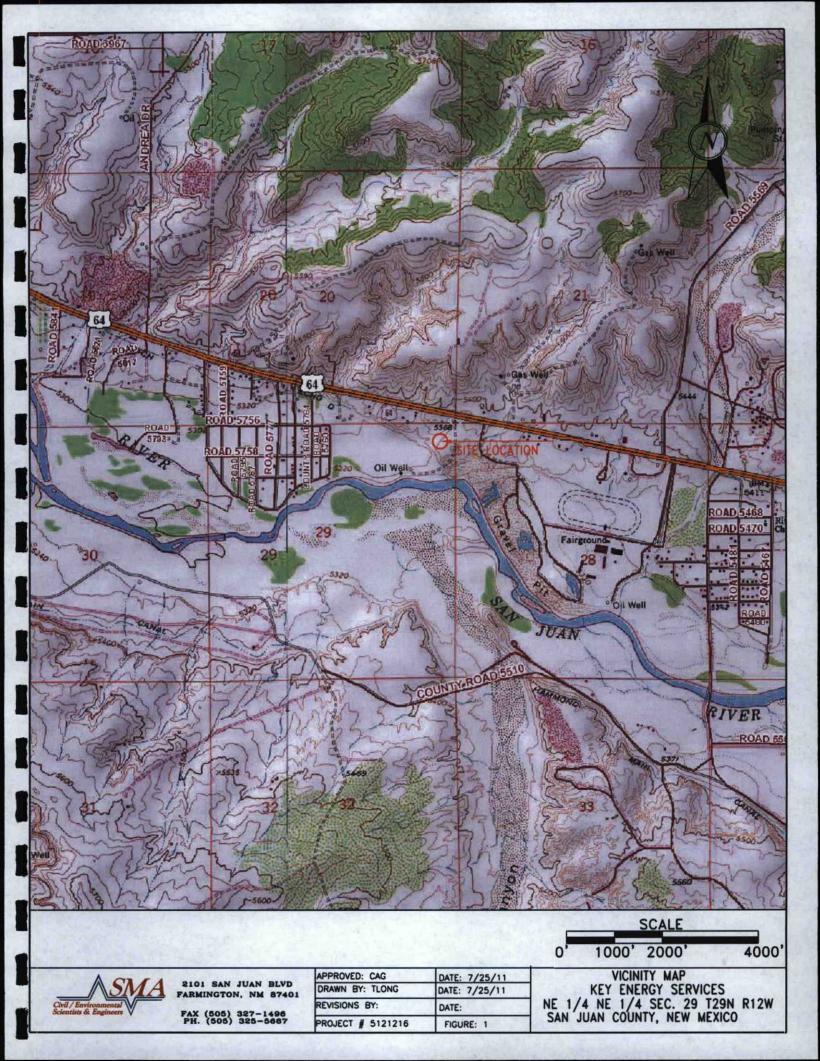
Table 2, Summary of Laboratory Analyses

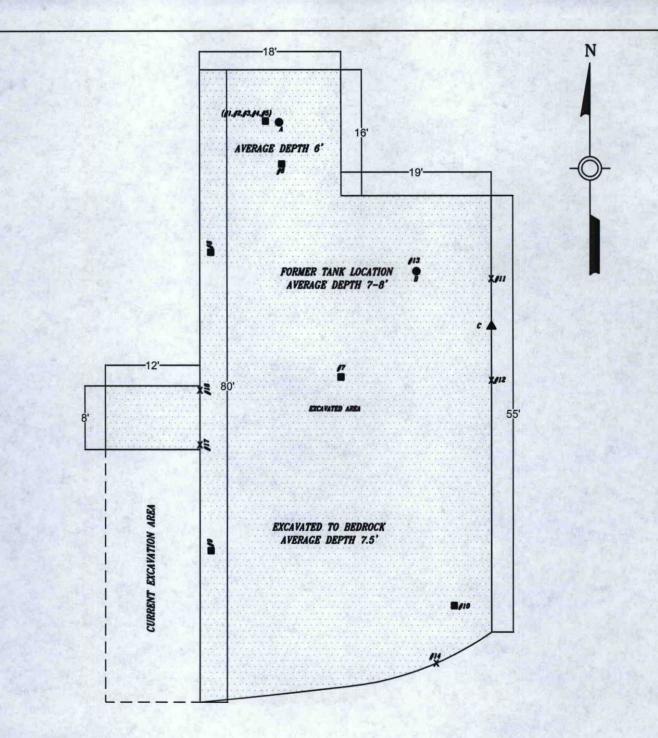
Appendices:

Appendix A, Site Photography

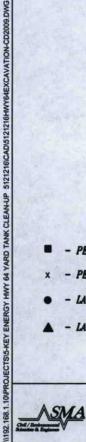
Appendix B, Laboratory Reports

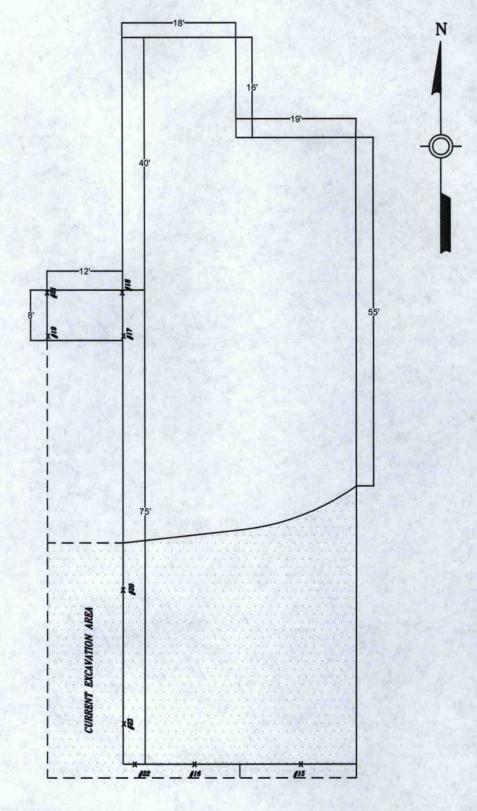
Appendix C, Soil Disposal Documentation

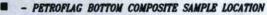




- PETROFLAG BOTTOM COMPOSITE SAMPLE LOCATION
- x PETROFLAG WALL COMPOSITE SAMPLE LOCATION
- LABORATORY BOTTOM COMPOSITE SAMPLE LOCATION
- ▲ LABORATORY WALL COMPOSITE SAMPLE LOCATION







- × PETROFLAG WALL COMPOSITE SAMPLE LOCATION
- LABORATORY BOTTOM COMPOSITE SAMPLE LOCATION
- ▲ LABORATORY WALL COMPOSITE SAMPLE LOCATION

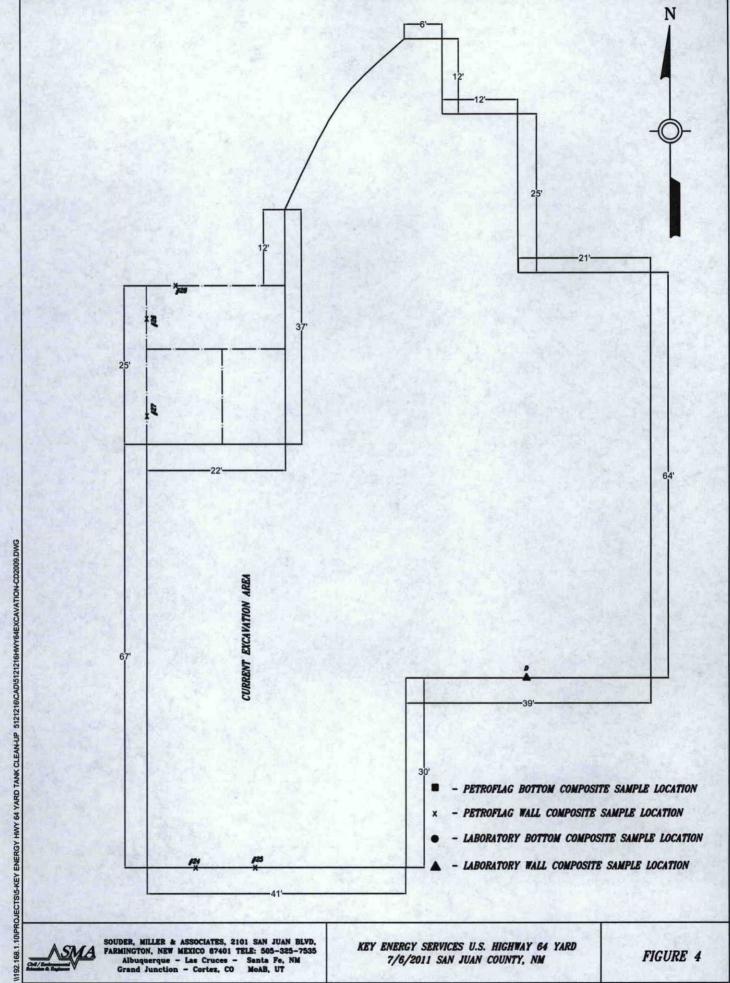


HWY 64 YARD TANK CLEAN-UP 5121216ICADI5121216HWY64EXCAVATION-CD2009.DWG

SOUDER, MILLER & ASSOCIATES, 2101 SAN JUAN BLVD, FARMINGTON, NEW MEXICO 67401 TELE: 505-325-7535 Albuquerque - Las Cruces - Santa Fe, NM Grand Junction - Cortez, CO MoAB, UT

KEY ENERGY SERVICES U.S. HIGHWAY 64 YARD 7/1/2011 TO 7/5/2011 SAN JUAN COUNTY, NM

FIGURE 3



7/6/2011 SAN JUAN COUNTY, NM

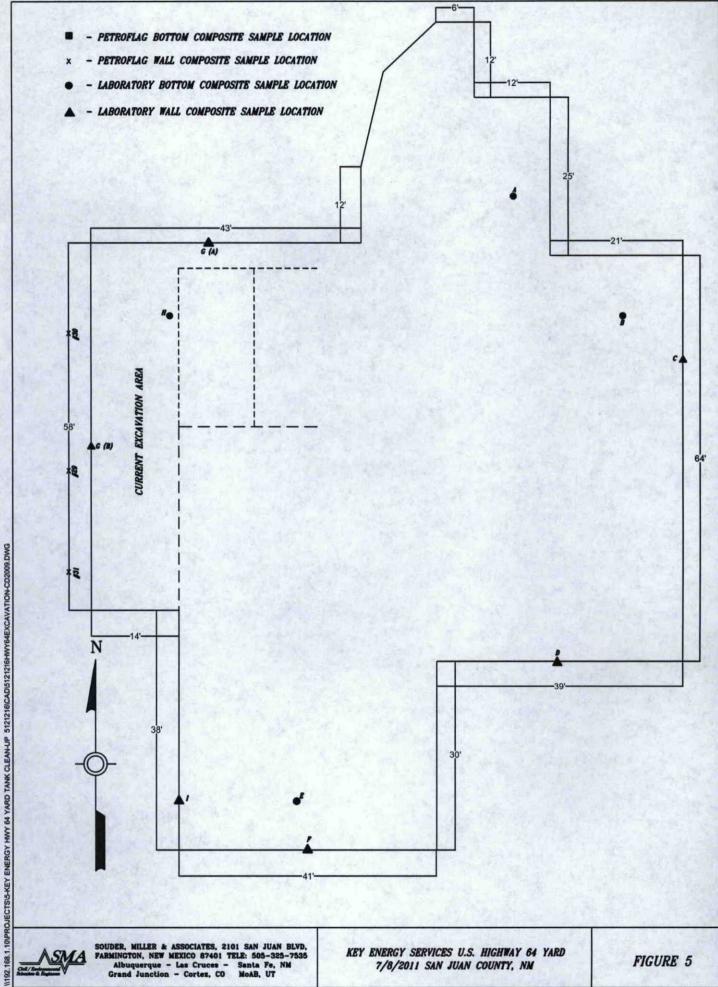


Table 1: Summary of Petroflag Analysis Results

Key Energy Services U.S. Highway 64 Yard

Sample ID	Date	Depth (feet)	Result (ppm)	
(1) North Bench	6/29/2011	4	22	
(2) South Bench	6/29/2011	4	46	
(3) Center Bench	6/29/2011	4	151	
(4) East Bench	6/29/2011	Wall		
(5) Composite West	6/29/2011	4	243	
(6) Composite North Bench	6/30/2011	5.5	87	
(7) Composite South Excavation	6/30/2011	6.5	OR	
(8) Composite A - NW Wall	6/30/2011	Wall	OR	
(9) Composite B - SW Wall	6/30/2011	Wall	OR	
(10) Composite SE Bottom	6/30/2011	7	552	
(11) East Wall #1	6/30/2011	Wall	93	
(12) East Wall #2	6/30/2011	Wall	131	
(13) Under Tank	6/30/2011	8	209	
(14) South Wall	6/30/2011	Wall	1435	
(15) SE Wall Composite #1	6/30/2011	Wall	20	
(16) SE Wall Composite #2	6/30/2011	Wall	97	
(17) #1 West Wall	7/1/2011	3	OR	
(18) #2 West Wall	7/1/2011	4.5	697	
(19) #3 West Wall Composite	7/1/2011	Wall	1201	
(20) #4 West Wall	7/5/2011	Wall	805	
(21) #5 West Wall Composite	7/5/2011	Wall	634	
(22) #6 Southwest Wall	7/5/2011	Wall	1422	
(23) #7 West Wall	7/5/2011	Wall	OR	
(24) #8 Southwest Wall	7/5/2011	Wall	162	
(25) #9 Southwest Wall	7/5/2011	Wall	OR	
(26) #10 West Wall Composite	7/6/2011	Wall	427	
(27) #11 West Wall Composite	7/6/2011	Wall	699	
(28) #12 Northwest Wall Composite	7/7/2011	Wall	862	
(29)#13 Northwall Composite	7/7/2011	Wall	OR	
(30) #14 West Wall Composite	7/8/2011	Wall	436	
(31) #15 West Wall Composite	7/8/2011	Wall	103	

Notes:OR/EEEE = Greater than the analytical range of the field instrument



Key Energy Services U.S. Highway 64 Yard

Sample Name	Date	USEPA METHOD 8021					USEPA METHOD 8015	
		Benzene	Toluene	Ethyl- Benzene	Total Xylenes	Total BTEX	Diesel Range	Gasoline Range
(A) North End @ 5.5' 5 pt Com	6/30/2011	NA	NA	NA	NA	NA	37	<5.0
(B) Below Tank- 8" 5 pt Comp	6/30/2011	NA	NA	NA	NA	NA	19	<5.0
(C) East Wall @ 7' - 3 pt Comp	6/30/2011	NA	NA	NA	NA	NA	12	<5.0
(D) Southeast Wall - Main Excavation	7/5/2011	<0.048	<0.048	<0.048	<0.097	<0.097	12	<4.8
(E) Southwest Bottom @7' - Main Excavation	7/5/2011	<0.046	<0.046	<0.046	<0.092	<0.092	580	<46
(F) Southwest Wall - Main Excavation	7/5/2011	<0.050	<0.050	<0.050	<0.10	<0.10	410	<5.0
(G) North Wall Composite	7/8/2011	<0.047	< 0.047	< 0.047	<0.093	< 0.093	<10	<4.7
(H) N.W. Bottom at 7.5'	7/8/2011	<0.048	<0.048	<0.048	<0.097	<0.097	70	<4.8
(I) S.W. Wall Comp.	7/8/2011	<0.048	<0.048	<0.048	<0.095	<0.095	180	<4.8
NMOCD Action Levels**		10		A CONTRACT		50	1	00

^{*}all results in mg/Kg



^{**}Action Levels based on groundwater depth less than 100 ft. bgs



Photo 1: View of the wash tank and bollards.



Photo 2: View of the wash tank and bollards.



Photo 3: View of the excavation around the wash tank.



Photo 4: View of the excavation around the wash tank.



Photo 5: View of the removal of the wash tank.



Photo 6: View of excavation activities along the southwest wall.



Photo 7: View of contaminated soil on the west side before excavating.



Photo 8: View of the contaminated soil on the west side before excavating.

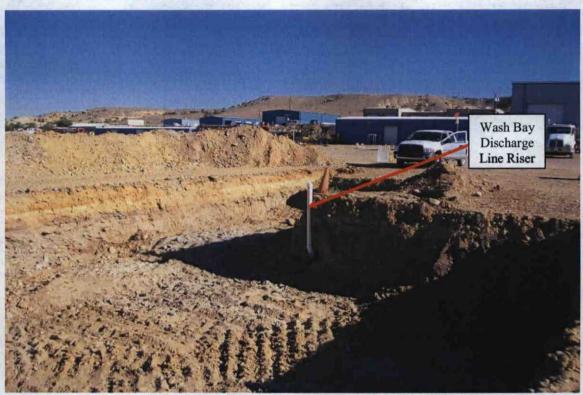


Photo 9: View of the northwest side of the excavation.



Photo 10: View of a leach line discovered during excavation activities on the northwest side.



Photo 11: View excavation activities on the southwest corner.



Photo 12: View of the excavation, view from the south.



Photo 13: View of excavating activities on the south side.



Photo 14: View of the terminated excavation on the southwest corner.



Photo 15: View of the southwest corner of the excavation.



Photo 16: View of the west side of the excavation.



Photo 17: View of excavating activities on the northwest side.



Photo 18: View of the northwest side of the excavation.



Photo 19: View of the west side of the completed excavation.



Photo 20: View of backfilling activities on the east side of the excavation.



Photo 21: View of backfilling activities on the east side of the excavation.



Photo 22: View of backfilling activities on the east side of the excavation.



Photo 23: View of backfilling activities on the east side of the excavation.



Photo 24: View of backfilling activities of the excavation.



Photo 25: View of backfilling activities of the excavation.



Photo 26: View of backfilling activities of the excavation.



Photo 27: View of backfilling activities of the excavation.



Photo 28: View of backfilling activities of the excavation.



Photo 29: View of capped discharge line from the wash bays.



Photo 30: View of backfilling and compaction activities.



Photo 31: View of backfilling and compaction activities.



Photo 32: View of backfilling and compaction activities.

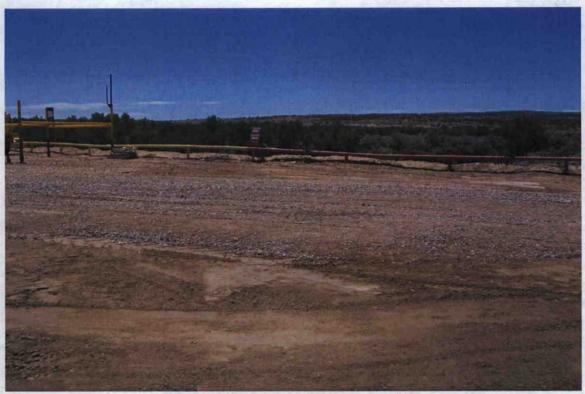


Photo 33: View of backfilled excavation.

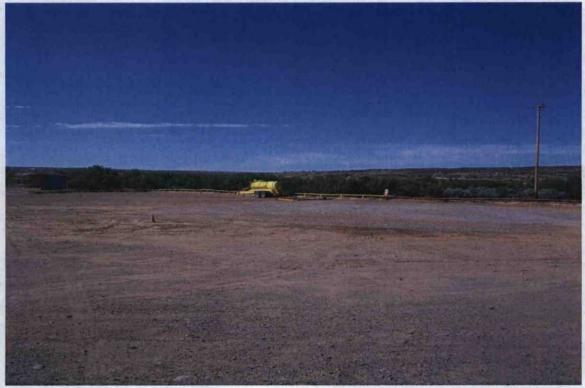


Photo 34: View of backfilled excavation.



Photo 35: View of the cleaning of the wash bay sumps.



Photo 36: View of the cleaning of the wash bay sumps.



Photo 37: View of the cleaning of the wash bay sumps.



Photo 38: View of the cleaned wash bay sumps.

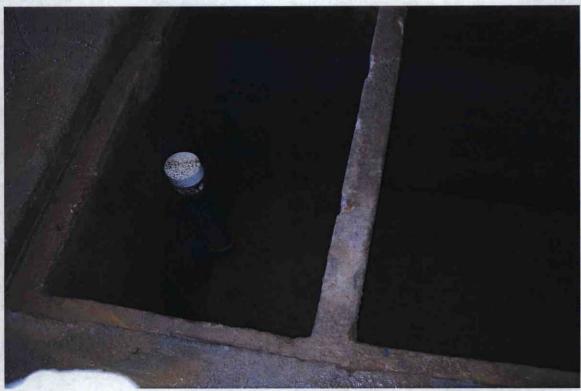


Photo 39: View of the cleaned wash bay sumps.



Photo 40: View of backfilling and compaction activities of the wash bay sumps.

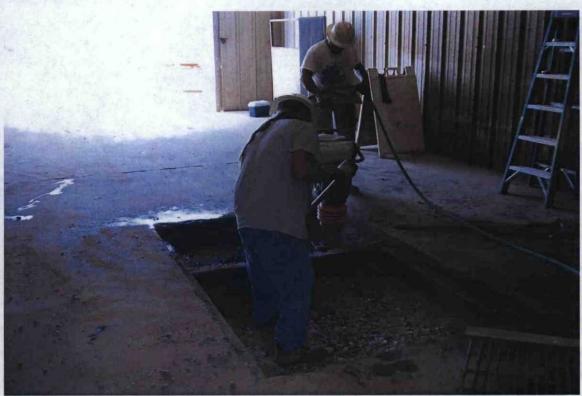


Photo 41: View of backfilling and compaction activities of the wash bay sumps.



Photo 42: View of backfilling and compaction activities of the wash bay sumps.

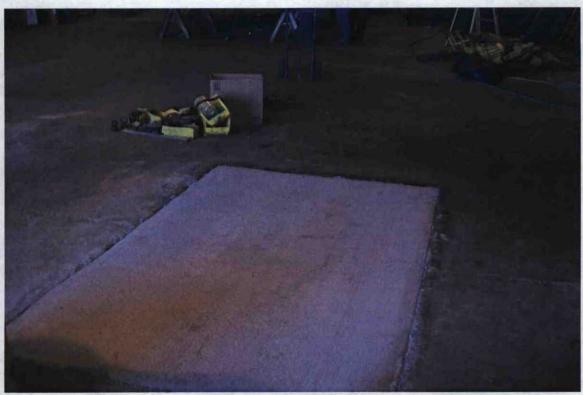


Photo 43: View of wash bay sumps after concrete completions.



Photo 44: View of wash bay sumps after concrete completions.



COVER LETTER

Tuesday, July 05, 2011

Cindy Gray Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401

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

RE: Key Energy Hwy 64 Yard

Dear Cindy Gray:

Order No.: 1107002

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 7/1/2011 for the analyses presented in the following report.

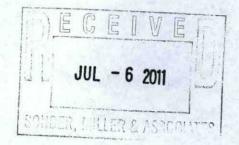
These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682





Date: 05-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107002

Project:

Key Energy Hwy 64 Yard

Lab ID:

1107002-01

Client Sample ID: N End @ 5.5' 5 pt comp

Collection Date: 6/30/2011 8:05:00 AM

Date Received: 7/1/2011

Matrix: MEOH (SOIL)

Analyses	Result	PQL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANGE	ORGANICS		7.74.51	SAVE-170	Of the same	Analyst: JB
Diesel Range Organics (DRO)	37	9.7	-	mg/Kg	1	7/1/2011 1:49:59 PM
Surr: DNOP	109	73.4-123		%REC	1	7/1/2011 1:49:59 PM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/1/2011 3:22:19 PM
Surr: BFB	104	75.2-136		%REC	1	7/1/2011 3:22:19 PM

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 05-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107002

Project:

Key Energy Hwy 64 Yard

Lab ID:

1107002-02

Client Sample ID: Below Tank-8" 5 pt comp

Collection Date: 6/30/2011 10:10:00 AM

Date Received: 7/1/2011

Matrix: MEOH (SOIL)

Result	PQL	Qual	Units	DF	Date Analyzed
E ORGANICS	MALE I	42			Analyst: JB
19	9.9		mg/Kg	1	7/1/2011 2:24:23 PM
95.0	73.4-123		%REC	1	7/1/2011 2:24:23 PM
NGE					Analyst: RAA
ND	5.0		mg/Kg	1	7/1/2011 3:52:26 PM
102	75.2-136		%REC	1	7/1/2011 3:52:26 PM
	E ORGANICS 19 95.0	E ORGANICS 19 9.9 95.0 73.4-123 NGE ND 5.0	E ORGANICS 19 9.9 95.0 73.4-123 NGE ND 5.0	E ORGANICS 19 9.9 mg/Kg 95.0 73.4-123 %REC NGE ND 5.0 mg/Kg	9.9 mg/Kg 1 95.0 73.4-123 %REC 1

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 05-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107002

Project:

Key Energy Hwy 64 Yard

Lab ID:

1107002-03

Client Sample ID: E Wall @ 7'3 pt comp

Collection Date: 6/30/2011 12:00:00 PM

Date Received: 7/1/2011

Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS	W Spilled		- 1/2 1/4/1	Analyst: JB
Diesel Range Organics (DRO)	12	9.9	mg/Kg	1	7/1/2011 2:59:17 PM
Surr: DNOP	97.7	73.4-123	%REC	1	7/1/2011 2:59:17 PM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/1/2011 4:22:27 PM
Surr: BFB	86.4	75.2-136	%REC	1	7/1/2011 4:22:27 PM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client:

Souder, Miller and Associates

Project: Key Energy Hwy 64 Yard

Work Order:

Date: 05-Jul-11

1107002

Analyte	Result	Units	PQL	SPK Va SF	K ref	%Rec L	owLimit Hig	hLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Sample ID: MB-27455	Diesel Range	Organics MBLK				Batch ID:	27455	Analys	sis Date:	7/1/2011 9	9:49:42 AM
Diesel Range Organics (DRO) Sample ID: LCS-27455	ND	mg/Kg	10			Batch ID:	27455		sis Date:	7/1/2011 10	0:23:49 AM
Diesel Range Organics (DRO) Sample ID: LCSD-27455	49.62	mg/Kg LCSD	10	50	0	99.2 Batch ID:	66.7 27455	119 Analys	sis Date:	7/1/2011	3:34:12 PM
Diesel Range Organics (DRO)	52.62	mg/Kg	10	50	0	105	66.7	119	5.86	18.9	

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Sample Receipt Checklist

Client Name SMA-FARM		Date Receiv	red:	7/1/2011
Work Order Number 1107002		Received to	by: AT	
1 har I		Sample ID	labels checked by:	AT
Checklist completed by: ANN Signature	0 / Da	/0////		Initials
	0			
Matrix: Carrier nam	e: <u>Greyhound</u>			
Shipping container/cooler in good condition?	Yes 🗸	No 🗆	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗆	Not Present	Not Shipped
Custody seals intact on sample bottles?	Yes 🗹	No 🗆	N/A	
Chain of custody present?	Yes 🗹	No 🗆		
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗆		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗆		
Samples in proper container/bottle?	Yes 🗹	No 🗆		
Sample containers intact?	Yes 🗹	No 🗆		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗆		
All samples received within holding time?	Yes 🗹	No 🗆		Number of preserved
Water - VOA vials have zero headspace? No VOA vials so	ubmitted 🔽	Yes 🗌	No 🗆	bottles checked for pH:
Water - Preservation labels on bottle and cap match?	Yes	No 🗆	N/A 🗹	
Water - pH acceptable upon receipt?	Yes 🗌	No 🗆	N/A 🗹	<2 >12 unless noted below.
Container/Temp Blank temperature?	1.0°	<6° C Accepta		below.
COMMENTS:		If given sufficie	ent time to cool.	
			=====	=======
Client contacted Date contacted:		Pe	erson contacted	
Contacted by: Regarding:				
Comments:				
Comments.		777		
	7025	74		
	k		AL AUGUST	
Corrective Action				

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL											
Mailing Address: San Juan Blud Farminton NM 87401 Phone #: 505-325-5667	Project Name: Vey Energy Hwy 64 Yard Project #: 5121216	ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											
QA/QC Package: Standard Level 4 (Full Validation) Accreditation NELAP Other	Project Manager: Cindy Gray Sampler: C. Gray On Ice: Yes D. No	B's (8021) H (Gas only) (Gas/Diesel) Po.PO4,SO4) 82 PCB's											
Date Time Matrix Sample Request ID	Container Type and # Preservative Type HEAL No.	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only TPH Method 8015B (Gas/Diesel TPH (Method 418.1) B310 (PNA or PAH) RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) Air Bubbles (Y or N)											
5 Pt. Composite (30/11 1010 Soil Ba Bolow Tunk-8" 5 Pt. Composite 30/11 12:00 Soil E.Woll@ 7 3 Pt. Composite	1 Cool -1 -2 1 Cool -2	X											
3) 11 12:00 Soil E.Wollo 7 3 Pt. Composite	1 Cool -3	X											
Date: Time: Relinquished by: 30/y 14 40	Received by: 130/11 1440 Received by: 130/11 1440 Con 130/11 1440	Remarks: Email Verbal to Cividy Gray possibility. Any sub-contracted data will be clearly notated on the analytical report.											



COVER LETTER

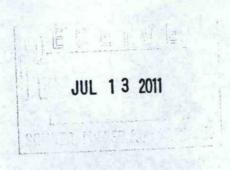
Monday, July 11, 2011

Cindy Gray Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401

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

RE: Key Energy Hwy 64 Yard

Dear Cindy Gray:



Order No.: 1107097

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 7/6/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682



Date: 11-Jul-11
Analytical Report

CLIENT: Lab Order: Souder, Miller and Associates

1107097

Key Energy Hwy 64 Yard

Lab ID:

Project:

1107097-01

Client Sample ID: Southeast Wall Main Excavation

Collection Date: 7/5/2011 2:00:00 PM

Date Received: 7/6/2011

Matrix: SOIL

Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	S. Strange	EVEN N. S.	S-18	Analyst: JB
Diesel Range Organics (DRO)	12	10	mg/Kg	1	7/7/2011 4:06:04 PM
Surr: DNOP	94.9	73.4-123	%REC	1	7/7/2011 4:06:04 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/7/2011 8:39:22 PM
Surr: BFB	115	75.2-136	%REC	1	7/7/2011 8:39:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	7/7/2011 8:39:22 PM
Toluene	ND	0.048	mg/Kg	1	7/7/2011 8:39:22 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/7/2011 8:39:22 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/7/2011 8:39:22 PM
Surr: 4-Bromofluorobenzene	107	92-130	%REC	1	7/7/2011 8:39:22 PM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 11-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107097

Key Energy Hwy 64 Yard

Project: Lab ID:

1107097-02

Client Sample ID: Southwest Bottom @7'-Main Exc.

Collection Date: 7/5/2011 2:40:00 PM

Date Received: 7/6/2011

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS	17921	140			Analyst: JB
Diesel Range Organics (DRO)	580	200		mg/Kg	20	7/7/2011 4:41:30 PM
Surr: DNOP	0	73.4-123	S	%REC	20	7/7/2011 4:41:30 PM
EPA METHOD 8015B: GASOLINE RAN	GE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	46		mg/Kg	10	7/8/2011 5:27:14 PM
Surr: BFB	92.2	75.2-136		%REC	10	7/8/2011 5:27:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.46		mg/Kg	10	7/7/2011 11:03:51 PM
Toluene	ND	0.46		mg/Kg	10	7/7/2011 11:03:51 PM
Ethylbenzene	ND	0.46		mg/Kg	10	7/7/2011 11:03:51 PM
Xylenes, Total	ND	0.92		mg/Kg	10	7/7/2011 11:03:51 PM
Surr: 4-Bromofluorobenzene	104	92-130		%REC	10	7/7/2011 11:03:51 PM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 11-Jul-11 Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

Client Sample ID: Southwest Wall Main Excavation

1107097

Collection Date: 7/5/2011 2:45:00 PM

Project:

Date Received: 7/6/2011

Lab ID:

Key Energy Hwy 64 Yard 1107097-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			The second	470.00	· Analyst: JB
Diesel Range Organics (DRO)	410	98		mg/Kg	10	7/8/2011 7:41:02 AM
Surr: DNOP	0	73.4-123	S	%REC	10	7/8/2011 7:41:02 AM
EPA METHOD 8015B: GASOLINE RANG	GE .					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2011 5:57:20 PM
Surr: BFB	97.2	75.2-136		%REC	1	7/8/2011 5:57:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	7/8/2011 12:01:35 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2011 12:01:35 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2011 12:01:35 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2011 12:01:35 AM
Surr: 4-Bromofluorobenzene	106	92-130		%REC	1	7/8/2011 12:01:35 AM

- Value exceeds Maximum Contaminant Level
- E
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- MCL Maximum Contaminant Level
- Not Detected at the Reporting Limit
 - Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Souder, Miller and Associates

Project: Key Energy Hwy 64 Yard Work Order: 1107097

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit Hig	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: D	iesel Range				134	D				7/7/0044	7.50.05.44
Sample ID: MB-27496		MBLK				Batch ID:	27496	Analys	is Date:	////2011	7:59:35 AN
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-27496		LCS				Batch ID:	27496	Analys	is Date:	7/7/2011	8:33:58 AM
Diesel Range Organics (DRO)	49.29	mg/Kg	10	50	3.765	91.1	66.7	119			
Sample ID: LCSD-27496		LCSD				Batch ID:	27496	Analys	is Date:	7/7/2011	9:08:22 AM
Diesel Range Organics (DRO)	47.76	mg/Kg	10	50	3.765	88.0	66.7	119	3.15	18.9	
Method: EPA Method 8015B: G	asoline Rar	nge									
Sample ID: MB-27495		MBLK				Batch ID:	27495	Analys	is Date:	7/7/2011 1	0:58:07 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-27495		LCS				Batch ID:	27495	Analys	is Date:	7/8/2011	5:59:21 Al
Gasoline Range Organics (GRO)	25.42	mg/Kg	5.0	25	0	102	88.8	124			
Method: EPA Method 8021B: V	olatiles		e ge	7-Pai						YES .	
Sample ID: 1107097-01A MSD		MSD				Batch ID:	27495	Analys	is Date:	7/8/2011 1	0:25:38 Al
Benzene	0.8166	mg/Kg	0.047	0.945	0	86.4	67.2	113	16.1	14.3	R
Toluene	0.9174	mg/Kg	0.047	0.945	0	97.1	62.1	116	10.7	15.9	
Ethylbenzene	0.9654	mg/Kg	0.047	0.945	0	102	67.9	127	8.37	14.4	
Xylenes, Total	2.957	mg/Kg	0.095	2.836	0	104	60.6	134	6.89	12.6	
Sample ID: MB-27495		MBLK				Batch ID:	27495	Analys	is Date:	7/7/2011 1	0:34:59 PI
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Kylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-27495		LCS				Batch ID:	27495	Analys	is Date:	7/7/2011	5:45:34 PI
Benzene	0.8597	mg/Kg	0.050	1	0	86.0	83.3	107			
Toluene	0.9672	mg/Kg	0.050	1	0.0145	95.3	74.3	115			
Ethylbenzene	1.012	mg/Kg	0.050	1	0	101	80.9	122			
Kylenes, Total	3.102	mg/Kg	0.10	3	0.0245	103	85.2	123			
Sample ID: 1107097-01A MS		MS				Batch ID:	27495	Analys	is Date:	7/8/2011 1	2:59:23 AM
Benzene	0.9600	mg/Kg	0.049	0.978	0	98.2	67.2	113			
Toluene	1.021	mg/Kg	0.049	0.978	0	104	62.1	116			
Ethylbenzene	1.050	mg/Kg	0.049	0.978	0	107	67.9	127			
Kylenes, Total	3.168	mg/Kg	0.098	2.933	0	108	60.6	134			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

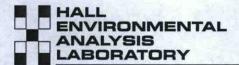
R RPD outside accepted recovery limits

Date: 11-Jul-11

Sample Receipt Checklist

Client Name SMA-FARM				Date Receiv	red:		7/6/2011
Work Order Number 1107097	111			Received b	y: LNM	-	A
Checklist completed by:	Himpop D		7/6/11 bate	Sample ID	labels checked	by:	Initials
Matrix:	Carrier name:	Grey	yhound				
Shipping container/cooler in good condition?		Yes	V	No 🗆	Not Present		
Custody seals intact on shipping container/coole	ir?	Yes	•	No 🗆	Not Present		Not Shipped
Custody seals intact on sample bottles?		Yes		No 🗆	N/A	~	
Chain of custody present?		Yes	V	No 🗆			
Chain of custody signed when relinquished and	received?	Yes	~	No 🗆			
Chain of custody agrees with sample labels?		Yes	•	No 🗆			
Samples in proper container/bottle?		Yes	•	No 🗆			
Sample containers intact?		Yes	V	No 🗆			
Sufficient sample volume for indicated test?		Yes	V	No 🗆			
All samples received within holding time?		Yes	V	No 🗆			Number of preserved
Water - VOA vials have zero headspace?	No VOA vials subn	nitted	~	Yes 🗆	No 🗆		bottles checked for pH:
Water - Preservation labels on bottle and cap ma	atch?	Yes		No 🗆	N/A 🗹		
Water - pH acceptable upon receipt?		Yes		No 🗆	N/A 🗹		<2 >12 unless noted
Container/Temp Blank temperature?		3	.3°	<6° C Accepta	able		below.
COMMENTS:				If given sufficie	nt time to cool.		
				Bar F			
Client contacted	Date contacted:		-12.7	Pe	rson contacted	-	
Contacted by:	Regarding:		- 11	Marie Land	Cont. II		
Comments:	A Stark			1 80			
ROBUELO SILVERI							
				11000	The later		
Corrective Action		1-13					
从外面的		11.17 - 11.17 -					
					11 -		

C	hain-	of-Cu	stody Record	Turn-Around																
Client:	SMA			□ Standard	Rush	48 hour Hwy 64 Yard													NT/	
				Project Name	e: /	Hwy 64						4237		BUE R	ment			KA		K1
Mailing	Address	2101	San Juan Blud	Key	Energy ,	yard		490)1 H									7109		
+0	arminoto	n nike	W1001	Project #:						5-34			E - Albuquerque, NM 87109 75 Fax 505-345-4107							
Phone	#: 50	5-326	-1535					Analysis Request												
email o	r Fax#: <i>C</i> Package:	Aby gr	□ Level 4 (Full Validation)					+ TPH (Gas only)	as/Diesel)					PO4,SO4)	PCB's					
Accred		□ Othe		Married Control of the Control of th	Chomas Lo	The second secon	TMB's (8021)	TPH (3B (G	(1.	£.	Î		NO2,	8082			V		Î
	(Type)	LI Othe		On Ice: Sample Tem		O No	+	3E +	801	d 418	d 504	PA J	als	,NO3	-	(VOA)	BIBX		70 7
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	80310		Air Bubbles (Y or N)
7/5/11	1400	soil	main execution	1402 Jur	Ice	- 1	Ш	Ш	$\frac{1}{\chi}$		Ш	80	IL.	d	8	8	8	X		
1	1490		South wost Botton.			-2	101	No.	4			1			1			X	e kin	
V	1445	4	South west Botton Ego. South west wall wall from	1	1	-3			Y									X		
				1000																
									96											
						3323973		16			14			M _E TO			N			
											7									
				B was																
						Park The William	2				A F	OF L	W	N.						A st
Date:	Time:	Relinquish	ad hv:	Received by:		Date Time	Pan						2							
7/5/11 Date:	1515 Time:	Relinquish	Toy	Received by:	e Work	7/5/11 /5/5 Date Time	Rem	iarks												
7/5/11	1604 f necessary,	Samples subi	ustre Waller mitted to Hall Environmental may be sub-	ontracted to other a	ccredited laboratorie	os. This serves as notice of the	nis possit	oility. A	Any su	b-cont	racted	l data	will be	clear	ly nota	ited or	n the a	nalytica	I report.	



COVER LETTER

Wednesday, July 20, 2011

Cindy Gray Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401

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

RE: Key Energy Yard

Dear Cindy Gray:

Order No.: 1107366

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 7/12/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682





Date: 20-Jul-11

Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107366

Key Energy Yard

Project: Lab ID:

1107366-01

Client Sample ID: N. Wall Comp.

Collection Date: 7/8/2011 10:20:00 AM

Date Received: 7/12/2011

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS	100	75		TOTAL AL	Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/14/2011 11:11:11 AM
Surr: DNOP	99.4	73.4-123		%REC	1	7/14/2011 11:11:11 AM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/14/2011 5:19:41 PM
Surr: BFB	84.0	75.2-136		%REC	1	7/14/2011 5:19:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	7/14/2011 5:19:41 PM
Toluene	ND	0.047		mg/Kg	1	7/14/2011 5:19:41 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/14/2011 5:19:41 PM
Xylenes, Total	ND	0.093		mg/Kg	1	7/14/2011 5:19:41 PM
Surr: 4-Bromofluorobenzene	88.3	92-130	S	%REC	1	7/14/2011 5:19:41 PM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 20-Jul-11 Analytical Report

CLIENT:

Souder, Miller and Associates

Client Sample ID: N.W. Bottom @7.5'

Lab Order:

1107366

Collection Date: 7/8/2011 10:25:00 AM

Project:

Date Received: 7/12/2011

Lab ID:

Key Energy Yard 1107366-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE OR	GANICS			BIACH ST	O THE	Analyst: JB
Diesel Range Organics (DRO)	70	9.7		mg/Kg	1	7/15/2011 10:32:59 AM
Surr: DNOP	105	73.4-123		%REC	1	7/15/2011 10:32:59 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2011 5:49:40 PM
Surr: BFB	86.3	75.2-136		%REC	1	7/14/2011 5:49:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	7/14/2011 5:49:40 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2011 5:49:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2011 5:49:40 PM
Xylenes, Total	ND	0.096	1	mg/Kg	1	7/14/2011 5:49:40 PM
Surr: 4-Bromofluorobenzene	84.2	92-130	S	%REC	1	7/14/2011 5:49:40 PM

- Value exceeds Maximum Contaminant Level
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

Date: 20-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

1107366

Lab Order: Project:

Key Energy Yard

Lab ID:

1107366-03

Client Sample ID: S.W. Wall Comp.

Collection Date: 7/8/2011 11:30:00 AM

Date Received: 7/12/2011

Matrix: SOIL

					100	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE OF	RGANICS	W. S	1940			Analyst: JB
Diesel Range Organics (DRO)	180	100		mg/Kg	10	7/14/2011 2:04:28 PM
Surr: DNOP	0	73.4-123	S	%REC	10	7/14/2011 2:04:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	. 1	7/14/2011 6:19:38 PM
Surr: BFB	92.4	75.2-136		%REC	1	7/14/2011 6:19:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	7/14/2011 6:19:38 PM
Toluene	ND	0.048		mg/Kg	1	7/14/2011 6:19:38 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2011 6:19:38 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2011 6:19:38 PM
Surr: 4-Bromofluorobenzene	96.5	92-130		%REC	1	7/14/2011 6:19:38 PM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client:

Souder, Miller and Associates

Project: Key Energy Yard

Work Order:

Date: 20-Jul-11

1107366

Analyte	Result	Units	PQL	SPK Va	al SPK ref	%Rec L	owLimit Hig	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: D	iesel Range	Organics									
Sample ID: MB-27581		MBLK				Batch ID:	27581	Analys	sis Date:	7/14/2011	9:27:44 AN
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-27581		LCS				Batch ID:	27581	Analys	sis Date:	7/14/2011 1	0:02:25 AM
Diesel Range Organics (DRO)	50.96	mg/Kg	10	50	0	102	66.7	119			
Method: EPA Method 8015B: G	Sasoline Ran	nge									
Sample ID: MB-27576		MBLK				Batch ID:	27576	Analys	is Date:	7/14/2011	4:49:33 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-27576		LCS				Batch ID:	27576	Analys	sis Date:	7/14/2011 1	0:21:34 PM
Gasoline Range Organics (GRO)	27.18	mg/Kg	5.0	25	0	109	88.8	124			
Method: EPA Method 8021B: V	olatiles										
Sample ID: 1107366-01A MSD		MSD				Batch ID:	27576	Analys	sis Date:	7/14/2011 1	1:51:56 PI
Benzene	1.013	mg/Kg	0.047	0.946	0	107	67.2	113	1.67	14.3	
Toluene	0.9290	mg/Kg	0.047	0.946	0	98.2	62.1	116	1.40	15.9	
Ethylbenzene	1.021	mg/Kg	0.047	0.946	0	108	67.9	127	1.31	14.4	
Kylenes, Total	3.169	mg/Kg	0.095	2.838	0	112	60.6	134	1.99	12.6	
Sample ID: MB-27576		MBLK				Batch ID:	27576	Analys	sis Date:	7/14/2011	4:49:33 PI
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-27576		LCS				Batch ID:	27576	Analys	sis Date:	7/14/2011 1	0:51:35 PM
Benzene	0.9929	mg/Kg	0.050	1	0.0051	98.8	83.3	107			
Toluene	0.9024	mg/Kg	0.050	1	0	90.2	74.3	115			
Ethylbenzene	0.9748	mg/Kg	0.050	1	0.0057	96.9	80.9	122			
Xylenes, Total	3.052	mg/Kg	0.10	3	0	102	85.2	123			
Sample ID: 1107366-01A MS		MS				Batch ID:	27576	Analys	is Date:	7/14/2011 1	1:21:48 PM
Benzene	1.030	mg/Kg	0.049	0.984	0	105	67.2	113			
Toluene	0.9421	mg/Kg	0.049	0.984	0	95.7	62.1	116			
Ethylbenzene	1.034	mg/Kg	0.049	0.984	0	105	67.9	127			
Xylenes, Total	3.233	mg/Kg	0.098	2.953	0	109	60.6	134			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

	Sample	Rece	sipi C	HECKIIST			
Client Name SMA-FARM				Date Recei	ved:		7/12/2011
Work Order Number 1107366	1			Received	by: AMG		A
Checklist completed by:			7/ Date	Sample ID) labels checked	d by	Initials
Matrix:	Carrier name:	Grey	hound	F# P			
Shipping container/cooler in good condition?	4	Yes	~	No	Not Presen	t	
Custody seals intact on shipping container/coole	er?	Yes	~	No	Not Presen	t	Not Shipped
Custody seals intact on sample bottles?		Yes	11	No	N/A	~	
Chain of custody present?		Yes	~	No			
Chain of custody signed when relinquished and	received?	Yes	~	No			
Chain of custody agrees with sample labels?		Yes	~	No			
Samples in proper container/bottle?		Yes	~	No			
Sample containers intact?		Yes	~	No			
Sufficient sample volume for indicated test?		Yes	~	No			
All samples received within holding time?		Yes	~	No			Number of preserved
Water - VOA vials have zero headspace?	No VOA vials subm	itted	~	Yes	No		bottles checked for pH:
Water - Preservation labels on bottle and cap m	atch?	Yes	1.00	No	N/A V	'	
Water - pH acceptable upon receipt?		Yes	11	No	N/A V		<2 >12 unless noted below.
Container/Temp Blank temperature?		2.	9°	<6° C Accept			below.
COMMENTS:				If given suffici	ent time to cool	5	
Client contacted	Date contacted:			P	erson contacted		

Regarding:

Corrective Action

Contacted by:

Comments:

C	hain-	of-Cu	stody Record	Turn-Around	Time:	That I was														
Client:	SM4			Standard	□ Rush				H										TOF	
			San Juan Blod.	Project Name	0:			49	01 F		www	.hal	lenvi	ironr	nent	al.cc	om			
Far	ming to	n, Nr	4 87401	Project #:)5-34					505-					
Phone	#: 50.	5-32	5-7535	5/2	1216	148 147						A	naly	sis	Req	uest				
email o			San Juan Blod. n B740/ 5-7535 graye. Soudorniller, w Level 4 (Full Validation)	Ci.	400		's (8021)	(Gas only)	sas/Diesel)					,PO4,SO4)	PCB's			X		
Accred □ NEL		□ Othe	er		honas Lo		- TMB's	TPH +	15B (C	18.1)	1)4.1)	AH)		3,NO2	/ 808		4)	B		Or N
	(Type)_				perature: 2		MTBE -	BE.	d 80)d 4,	od 5(or P	stals	N,I	ides	B	-00	8		2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MT	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,C	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	1608		Air Bubbles
1/8/11	1030	5051	N. Wall Comp.	(1) 402 v	JCE	1107366-1			X			~				~	-	X		
	1025		N.W. Bottome 7,51			-2			4									X		
1	1130	1	N. Wall Comp. N.W. Bottome 7.51 SW Wall Comp	4	V	-3			4									X		
													190		4					
									3											
Date: Date:	Time:	Relinquish	Fr	Received by: Received by:	- Walte	Date Time 7/11/11 1520 Date Time	Ren	nark	s:											
7/11/11 1	1041	samples sub	with whates mitted to Hall Environmental may be subc	ontracted to other a	ccredite laboratorie	The serves as notice of this	s possil	bility.	Any sı	ıb-cont	racted	data	will be	clearl	y notal	ted on	the ar	nalytical	report.	



COVER LETTER

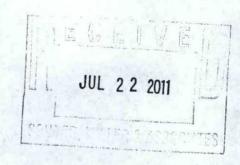
Thursday, July 21, 2011

Cindy Gray Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401

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

RE: Key Energy Yard

Dear Cindy Gray:



Order No.: 1107566

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 7/15/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682



Date: 21-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107566

Project:

Key Energy Yard

Lab ID:

1107566-01

Client Sample ID: Sump 1 West Bay

Collection Date: 7/14/2011 3:45:00 PM

Date Received: 7/15/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY	Ey'l in a patient with	10-1	177	100 Land (100 cm	· 10	Analyst: MBR
Mercury	ND	0.00020		mg/L	1	7/19/2011 2:55:29 PM
EPA 6010B: TOTAL RECOVERA	BLE METALS					Analyst: TES
Arsenic	ND	0.020		mg/L	1	7/18/2011 2:41:53 PM
Barium	0.095	0.020		mg/L	1	7/18/2011 2:41:53 PM
Cadmium	ND	0.0020		mg/L	1	7/18/2011 2:41:53 PM
Chromium	ND	0.0060		mg/L	1	7/18/2011 2:41:53 PM
Lead	ND	0.0050		mg/L	1	7/18/2011 2:41:53 PM
Selenium	ND	0.050		mg/L	1	7/18/2011 2:41:53 PM
Silver	ND	0.0050		mg/L	1	7/18/2011 2:41:53 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 1 of 2

Date: 21-Jul-11

CLIENT:

Souder, Miller and Associates

Lab Order:

1107566

Client Sample ID: Sump 4 North Bay

Analytical Report

Collection Date: 7/14/2011 3:55:00 PM

Project:

Key Energy Yard

Date Received: 7/15/2011

Lab ID:

1107566-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY		147-0	9/3			Analyst: MBR
Mercury	ND	0.00020		mg/L	. 1	7/19/2011 2:57:17 PM
EPA 6010B: TOTAL RECOVERABLE	METALS					Analyst: TES
Arsenic	ND	0.020		mg/L	1	7/18/2011 2:44:21 PM
Barium	0.12	0.020		mg/L	1	7/18/2011 2:44:21 PM
Cadmium	ND	0.0020		mg/L	1	7/18/2011 2:44:21 PM
Chromium	ND	0.0060		mg/L	1	7/18/2011 2:44:21 PM
Lead	ND	0.0050		mg/L	1	7/18/2011 2:44:21 PM
Selenium	ND	0.050		mg/L	1	7/18/2011 2:44:21 PM
Silver	ND	0.0050		mg/L	1	7/18/2011 2:44:21 PM

- Value exceeds Maximum Contaminant Level
- Estimated value E
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits



YOUR LAB OF CHOICE

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 20, 2011

Anne Thorne Hall Environmental Analysis Laborat 4901 Hawkins NE Albuquerque, NM 87109

ESC Sample # : L526347-01

Date Received Description

July 1107566 16, 2011

Sample ID

Site ID :

SUMP 1 WEST BAY

Project # : 1107566

Collected By : Collection Date :

07/14/11 15:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	Non-Corrosive			9040C	07/20/11	1
Flashpoint	See Footnote		deg F	D93/1010A	07/20/11	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/l	9012B	07/20/11	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/l	9034/9030B	07/20/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/20/11 17:40 Printed: 07/20/11 17:40 L526347-01 (FLASHPOINT) - Did Not Flash @ 170 F



YOUR LAB OF CHOICE

12065 Lebanon Rd. 1205 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Anne Thorne Hall Environmental Analysis Laborat 4901 Hawkins NE Albuquerque, NM 87109

July 20, 2011

ESC Sample # : L526347-02

July 1107566 Date Received :

Description

Site ID :

SUMP 2 NORTH BAY Sample ID

16, 2011

Project # : 1107566

Collected By : Collection Date :

07/14/11 15:55

Result	Det. Limit	Units	Method	Date	Dil.
Non-Corrosive			9040C	07/20/11	1
See Footnote		deg F	D93/1010A	07/20/11	1
BDL	0.125	mg/l	9012B	07/20/11	1
BDL	25.	mg/l	9034/9030B	07/20/11	1
	Non-Corrosive See Footnote BDL	Non-Corrosive See Footnote BDL 0.125	Non-Corrosive See Footnote deg F BDL 0.125 mg/l	Non-Corrosive 9040C	Non-Corrosive 9040C 07/20/11 See Footnote deg F D93/1010A 07/20/11 BDL 0.125 mg/l 9012B 07/20/11

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/20/11 17:40 Printed: 07/20/11 17:40 L526347-02 (FLASHPOINT) - Did Not Flash @ 170 F

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L526347-01	WG546374	SAMP	Corrosivity	R1772511	T8
L526347-02	WG546374		Corrosivity	R1772511	T8

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning	
Т8	(ESC) - Additional method/sample information:	Sample(s) received past/too

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Differrence.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory Anne Thorne 4901 Hawkins NE

Albuquerque, NM 87109

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L526347

July 20, 2011

		L	boratory	Blank					
Analyte	Result	1	Units	% Rec		Limit	Yakilai	Batch	Date Analyzed
Corrosivity	3.90	2433.29	WEST !	3775	en se de la company	CONTRACT	BYT LITE	WG546374	07/20/11 11:19
Reactive Sulf.(SW846 7.3.4.1)	< 25	1	ng/l	NUMBER CONTRACTOR	amineral de Selo	BUT STATISTICS	erisə xusulta	DECTUS SERVICES CONTRACTOR AND INCOME.	07/20/11 09:00
Reactive CN (SW846 7.3.3.2)	< .125	1	ng/l			PERMIT	11/20/2014/07		07/20/11 17:13
Analyte	Units	Result	Duplica		RPD	Limit		Ref Samp	Batch
	OHIES	Nesur	Dup.					STATE OF THE STATE	
Corrosivity		0	0	TELTO, SIND	D. F. Co.	10	24)2562764	L526347-	01 WG546374
Reactive Sulf.(SW846 7.3.4.1)	mg/1	0	0	e Chronitana Nation	0	20	CALL CHARLOS III. INCID	L526347-	01 WG546418
Flashpoint	deg F	0	0	A STATE OF THE SALE AND	0	20	PS STATIS	L526300-	04 WG546198
		Labora	tory Cont	rol Sample	е.				
Analyte	Units	Known	Val	Resu	lt	% Rec		Limit	Batch
Corrosivity	Kart Mickey	6.3	GS-EVER	6.30	SOURCE LA	7.100.	5.72%	97.98-102	.02 WG546374
Reactive Sulf.(SW846 7.3.4.1)	mg/l	100	3800 H. SHINDS	78.0	gardenda:	78.0	s Administration	70-130	WG546418
Flashpoint	deg F	82	Shannes Land	82.0	SHE STEELS	100.	NAME OF STREET	96-104	WG546198
		aboratory			licate				
Analyte	Units	Result	Ref	%Rec		Limit	RPD	Lim	it Batch
Corrosivity	CONTRACTOR	6.30	6.30	100,	STATE	97.98-102.	02 0	10	WG546374
Reactive Sulf.(SW846 7.3.4.1)	mg/l	90.0	78.0	90.0		70-130	14.3	20	WG546418
Flashpoint	deg F	82.0	82.0	100.	ANCO LOVE	96-104	0	7	WG546198

Batch number /Run number / Sample number cross reference

WG546374: R1772511: L526347-01 02 WG546418: R1773091: L526347-01 02 WG546198: R1773350: L526347-01 02 WG546419: R1773832: L526347-01 02

^{* *} Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

Date: 21-Jul-11

QA/QC SUMMARY REPORT

Client: Souder, Miller and Associates

Project: Key Energy Yard Work Order: 1107566

Analyte		Result	Units	PQL	SPK Va	SPK ref	%Rec Lo	wLimit Hi	ghLimit	%RPD	RPDLimit	Qual
	EPA Method 7470: Me	ercury				-78				THOU		
Sample ID:	MB-27649		MBLK				Batch ID:	27649	Analysis	s Date:	7/19/2011	2:43:07 PI
Mercury		ND	mg/L	0.00020								
Sample ID:	LCS-27649		LCS				Batch ID:	27649	Analysis	s Date:	7/19/2011	2:44:51 PI
Mercury		0.005013	mg/L	0.00020	0.005	2E-05	99.9	80	120		W 1 4 5	
Method:	EPA 6010B: Total Red	overable Met	als									
Sample ID:	MB-27618		MBLK				Batch ID:	27618	Analysis	s Date:	7/18/2011	2:39:44 PI
Arsenic		ND	mg/L	0.020								
Barium		ND	mg/L	0.020								
Cadmium		ND	mg/L	0.0020								
Chromium		ND	mg/L	0.0060								
ead		ND	mg/L	0.0050								
Selenium		ND	mg/L	0.050								
Silver		ND	mg/L	0.0050								
Sample ID:	LCS-27618		LCS				Batch ID:	27618	Analysis	s Date:	7/18/2011	2:35:50 PI
Arsenic		0.5194	mg/L	0.020	0.5	0	104	80	120			
Barium		0.5016	mg/L	0.020	0.5	0	100	80	120			
Cadmium		0.5044	mg/L	0.0020	0.5	0.0009	101	80	120			
Chromium		0.5229	mg/L	0.0060	0.5	0	105	80	120			
ead		0.5007	mg/L	0.0050	0.5	0	100	80	120			
Selenium		0.5133	mg/L	0.050	0.5	0	103	80	120			
Silver		0.1047	mg/L	0.0050	0.1	0	105	80	120			

_	_	_	
0	ma	lifi	are

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Page 1

Sample Receipt Checklist

Client Name SMA-FARM			Date Receive	d:	7/15/2011	
Work Order Number 1107566			Received by	: AMG		
Checklist completed by:		7/15 Date	Sample ID la	abels checked I	by: Initials	
Matrix:	Carrier name Gre	eyhound				
Shipping container/cooler in good condition?	Ye	s 🗹	No 🗆	Not Present		
Custody seals intact on shipping container/coole	r? Yes	s 🗹	No 🗆	Not Present	☐ Not Shippe	ed 🗆
Custody seals intact on sample bottles?	Yes	s 🗆	No 🗆	N/A	✓	
Chain of custody present?	Yes	· 🗸	No 🗆			
Chain of custody signed when relinquished and r	eceived? Yes	· •	No 🗆			
Chain of custody agrees with sample labels?	Yes	· 🗸	No 🗆			
Samples in proper container/bottle?	Yes		No 🗹			
Sample containers intact?	Yes	· •	No 🗆			
Sufficient sample volume for indicated test?	Yes	· •	No 🗆			
All samples received within holding time?	Yes	· •	No 🗆			er of preserved
Water - VOA vials have zero headspace?	No VOA vials submitted		Yes 🗆	No 🗆	bottles pH:	checked for
Water - Preservation labels on bottle and cap ma	tch? Yes	. 🗆	No 🗆	N/A 🗹		
Water - pH acceptable upon receipt?	Yes		No 🗆	N/A 🗹		unless noted
Container/Temp Blank temperature?		.3°	<6° C Acceptable	le	below.	
COMMENTS:			If given sufficient	time to cool.		
		tel				
Client contacted	Date contacted:		Pers	on contacted		Carlotte.
Contacted by:	Regarding		de la company			
Comments:						
A TO SEE THE RESIDENCE			TO STATE		Tales of the State	9/8/27/0
						n a la
			T-N			
Corrective Action				-1	Mr Value	
	1 AGE			332	THE THE	

C	hain-	of-Cu	ustody Record	Turn-Around	Time:	/														
Client:	SM	1		☐ Standard	Rush	ASAP gy Yad				A	N	AL	YS	SIS	S L	AE	30		NTA	
Mailing	Address	2101	Son Than And	1 6	ey Ener	ay Vad		49	01 H	awki					ment			7109		
far	ningto	n, wr	Sen Jean Blod 1 87401 5-7535	Project #:	21216	11				5-34		975	F	ах	505-	345-	410		Ser L	3. 3.
Phone	#: 500	5-320	5-7535									Α	naly	sis	Req	uest	t			FIFT
QA/QC Stan	Package:	undy.	Gray eSondermiller. Con □ Level 4 (Full Validation)	Cinc	y Gray		TMB's (8021)	(Gas only)	sas/Diesel					,PO4,SO4)	PCB's					
Accred		□ Othe	ər	Sampler: On Ice:	Thomas L	ney No	+ TMB	- TPH	15B (G	8.1)	14.1)	AH)		3,NO2	/ 8082		4)			2 Z
□ EDD	(Type)_	1,09	THE REPORT OF	Sample Temp		2.3		BE +	180	d 41	d 50	or P,	tals	ON'I	ides	1	·VO/			8
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	PEI		Air Bubbles (Y or N)
114/11	1545	liqued	Scorp #1 West Bay	BOOML	JCF	1107566-1						w	×	1	w	8	w	X		
V	1585	4	Sump# 1 West Buy	1	l	-2							X					×		
								800 87												
	2.6										2									
7 22											50				6					
Date: Date:	Time: 1630 Time:	Relinquish	yes for	Received by: Received by:	e Was	Date Time 7/1/// 1430 Date Time		narks	100	1d	Hat	42	ed y	151	54/0	nti	11	5	MA	
7/4/11	necessary,	samples sub	mitted to Hall Environmental may be sub-	contracted to other ac	ul Cjan	7/15/11 8:02 es. This serves as notice of the			70000											

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 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Form C-138

Revised March 12, 2007

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Key Energy, 5651 U.S. Hwy 64, Farmington, NM 87401
2. Originating Site: Key Energy Yard, 5651 U.S. Hwy 64, Farmington, NM
3. Location of Material (Street Address, City, State or ULSTR): Key Energy Yard, 5651 U.S. Hwy 64, Farmington, NM
4. Source and Description of Waste: Soils excavated from around field truck wash bay effluent holding tank in yard; old overfills and small spills. TPH ranging from 0 to 8000 ppm; Tested for RCRA 8 Metals
Estimated Volume 700 yd³/bbls Known Volume (to be entered by the operator at the end of the haul) yd³/bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I,, representative or authorized agent for Key Energy do hereby certify that a cording to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. **Decretor Use Only: Waste Acceptance Frequency: **Decretor Use Only: **Decretor Use Only: **Dec
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, representative for do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter:
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Industrial Ecosystems, Inc.
Address of Facility:
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: DATE:
SIGNATURE: TELEPHONE NO.:

Date: 29-Jun-11
Analytical Report

CLIENT: Souder, Miller and Associates

Lab Order: 1106A67

Project: Key Energy Hwy 64 Yard

Lab ID: 1106A67-01

Client Sample ID: Composite Stockpile & Pit

Collection Date: 6/24/2011 1:45:00 PM

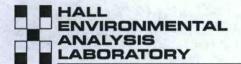
Date Received: 6/27/2011

Matrix: SOIL

Lad ID:	1100A07-01	IVANIA SOID										
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed					
EPA METHOD	7471; MERCURY						Analyst: ELS					
Mercury		ND	0.033		mg/Kg	1	6/27/2011 2:01:20 PM					
EPA METHOD	6010B: SOIL METALS	Total,	not	TCL	P		Analyst: RAGS					
Arsenic		ND '	13		mg/Kg	5	6/28/2011 10:22:44 AM					
Barium		210	0.50		mg/Kg	5	6/28/2011 10:22:44 AM					
Cadmium		ND	0.50		mg/Kg	5	6/28/2011 10:22:44 AM					
Chromium		5.6	1.5		mg/Kg	5	6/28/2011 10:22:44 AM					
Lead		13	1.3		mg/Kg	5	6/28/2011 10:22:44 AM					
Selenium		ND	13		mg/Kg	5	6/28/2011 10:22:44 AM					
Silver		ND	1.3		mg/Kg	5	6/28/2011 10:22:44 AM					
					TO	100	guivalent 1 Kg					
	2 1		-11		1	1 60	arvalent.					
	Ba	210	- 2	0 -	: /0.	S mg	/K9					
					= 0,3	- '	11-					
		5.6	- :	20	- 0,0	28 mg	149					
	CA	2,4										
					0	65 m	111					
	PL	13	÷	20:	= 0,	M	9/Ko					
	Ь					- (
							7					

- * Value exceeds Maximum Con
- E Estimated value
- J Analyte detected below quantitation lie
- NC Non-Chlorinated
- **PQL** Practical Quantitation Limit

- MCL
 - ND Not Detected at the Reporting Limit
 - S Spike recovery outside accepted recovery limits



COVER LETTER

Wednesday, June 29, 2011

Cindy Gray Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401

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

RE: Key Energy Hwy 64 Yard

Dear Cindy Gray:

Order No.: 1106A67

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 6/27/2011 for the analyses presented in the following report.

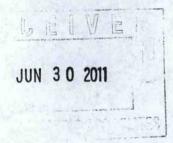
These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682





Date: 29-Jun-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1106A67

Project:

Key Energy Hwy 64 Yard

Lab ID:

1106A67-01

Client Sample ID: Composite Stockpile & Pit

Collection Date: 6/24/2011 1:45:00 PM

Date Received: 6/27/2011

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY	THE REAL PROPERTY.		1115		P. F. San	Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	6/27/2011 2:01:20 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	6/28/2011 10:22:44 AM
Barium	210	0.50		mg/Kg	5	6/28/2011 10:22:44 AM
Cadmium	ND	0.50		mg/Kg	5	6/28/2011 10:22:44 AM
Chromium	5.6	1.5		mg/Kg	5	6/28/2011 10:22:44 AM
Lead	13	1.3		mg/Kg	5	6/28/2011 10:22:44 AM
Selenium	ND	13		mg/Kg	5	6/28/2011 10:22:44 AM
Silver	ND	1.3		mg/Kg	5	6/28/2011 10:22:44 AM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Souder, Miller and Associates

Project: Key Energy Hwy 64 Yard Work Order: 1106A67

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec Lo	owLimit Hig	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 7471: M	ercury	I DO	7.5			F To Lower					
Sample ID: MB-27367		MBLK				Batch ID:	27367	Analysis	Date:	6/27/2011	1:56:05 PM
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-27367		LCS				Batch ID:	27367	Analysis	Date:	6/27/2011	1:57:49 PM
Mercury	0.1618	mg/Kg	0.033	0.167	0.0029	95.4	80	120			
Method: EPA Method 6010B:	Soil Metals										
Sample ID: 1106A67-01AMSD		MSD				Batch ID:	27374	Analysis	Date:	6/28/2011 1	0:27:07 AN
Arsenic	28.10	mg/Kg	13	24.97	2.261	103	75	125	0.734	20	
Cadmium	24.80	mg/Kg	0.50	24.97	0	99.3	75	125	2.38	20	
Chromium	32.28	mg/Kg	1.5	24.97	5.558	107	75	125	0.530	20	
Lead	33.69	mg/Kg	1.3	24.97	12.96	83.0	75	125	2.07	20	
Selenium	23.25	mg/Kg	13	24.97	0	93.1	75	125	24.1	20	R
Silver	4.856	mg/Kg	1.3	4.994	0	97.2	75	125	1.95	20	
Sample ID: MB-27374		MBLK				Batch ID:	27374	Analysis	Date:	6/28/2011	9:56:02 AN
Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Lead	ND	mg/Kg	0.25								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Sample ID: LCS-27374		LCS				Batch ID:	27374	Analysis	Date:	6/28/2011	9:58:38 AN
Arsenic	25.79	mg/Kg	2.5	25	0	103	80	120			
Barium	25.65	mg/Kg	0.10	25	0	103	80	120			
Cadmium	24.97	mg/Kg	0.10	25	0	99.9	80	120			
Chromium	25.76	mg/Kg	0.30	25	0	103	80	120			
Lead	24.46	mg/Kg	0.25	25	0	97.8	80	120			
Selenium	24.58	mg/Kg	2.5	25	0	98.3	80	120			
Silver	4.992	mg/Kg	0.25	5	0	99.8	80	120			
Sample ID: 1106A67-01AMS		MS				Batch ID:	27374	Analysis	Date:	6/28/2011 1	0:24:50 AN
Arsenic	27.89	mg/Kg	13	24.8	2.261	103	75	125			
Cadmium	24.22	mg/Kg	0.50	24.8	0	97.7	75	125			
Chromium	32.45	mg/Kg	1.5	24.8	5.558	108	75	125			
Lead	33.00	mg/Kg	1.3	24.8	12.96	80.8	75	125			
Selenium	18.26	mg/Kg	13	24.8	0	73.6	75	125			S
Silver	4.763	mg/Kg	1.3	4.96	0	96.0	75	125			

Qualifiers:

Date: 29-Jun-11

E Estimated value

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SMA-FARW			Date Receive	a.	6/2//2011
Work Order Number 1106A67			Received by		Λ_
Checklist completed by:	1		Sample ID I	abels checked by	Initials
Signature Signature	The	Date	4/21/11		
Matrix:	Carrier name: G	reyhound			
		Maria.			
Shipping container/cooler in good condition?	Y	es 🗹	No 🗆	Not Present	
Custody seals intact on shipping container/cooler?	Y	es 🗹	No 🗆	Not Present	☐ Not Shipped ☐
Custody seals intact on sample bottles?	Y	es 🗆	No 🗆	N/A €	2
Chain of custody present?	Y	es 🔽	No 🗆		
Chain of custody signed when relinquished and received	d? Y	es 🗸	No 🗆		
Chain of custody agrees with sample labels?	Y	es 🗹	No 🗆		
Samples in proper container/bottle?	Y	es 🗹	No 🗆		
Sample containers intact?	Y	es 🗸	No 🗆		
Sufficient sample volume for indicated test?	Y	es 🗸	No 🗆		
All samples received within holding time?	Y	es 🗸	No 🗆		Number of preserved
Water - VOA vials have zero headspace? No V	OA vials submitt	ed 🗹	Yes 🗆	No 🗆	bottles checked for pH:
Water - Preservation labels on bottle and cap match?	Y	es 🗌	No 🗆	N/A 🗹	
Water - pH acceptable upon receipt?	Y	es 🗆	No 🗆	N/A 🗹	<2 >12 unless noted
Container/Temp Blank temperature?		8.1°"	<6° C Acceptal	ble	below.
COMMENTS:			If given sufficien	t time to cool.	
			=====		
Client contacted Date co	ontacted:		Per	son contacted _	
Contacted by: Regard	ling:				
Comments:					
Comments.	178				
	1			1 / 65/10	THE RESERVE
			1201		
0				N. C. C.K.	
Corrective Action			- 60	7.0	

hain-	of-Cu	stody Record	Turn-Around	Time:	/ Marikish														
SA	M	FMO	□ Standard Project Name	ex Bne	18 hours		490)1 Ha	A v	.N/	AL /.hall	YS lenvi	ironr	S L ment	AE tal.co	30 om	RA		
			Project #:				Te	1. 50	5-34	5-39							1		
											A			Req	uest				
Package:			The second secon		25	's (8021)	(Gas only	sas/Diese					,PO4,SO4,	PCB's			pho/s		
	□ Othe		Sampler: On Ice:	Thomas La	□ No	+ TMB	+ TPH		18.1)	(04.1)	AH)		ON'EC	s / 8082		(A)	2		or N)
(Type)_	A Y		Sample Tem	perature: %	/	TBE	TBE	9d 80	4 pol	od 5	OrF	etals	CI,N	cides	F	-i-V0	2		اح (ح
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + M	BTEX + M	TPH Metho	TPH (Meth	EDB (Meth	8310 (PNA	RCRA 8 M	Anions (F,	8081 Pesti	8260B (VC	8270 (Serr	BRCI		Air Bubbles (Y or N)
1345	Soil	Stockfile	1	Ice															
					dall's single													Sar 1	
40 - 1										3 30									
												500							
						Est						er i d							
						0000													
												27 3152							
				Sub-							80								
1430	The	my Lay	Received by:	R	Date Time 0 25 1 1000	Ren	narks		Vap	d	ı	18	h		R	-56	56		
# II F	Address: #: r Fax#:C Package: idard itation AP (Type) Time 1345	Address: #: r Fax#:Cindy . que Package: Idard Itation AP Other O(Type) Time Matrix Time: 1430 Time: Relinquishe 1430	#: r Fax#:Cindy · 9rcy escheriller Package: dard	Address: #: r Fax#:C:ndy . 9ra . Sample Project Mana Package: dard	Address: Standard Project Name:	Address: Standard Project Name:	Standard Rush 48 bows Project Name:	Address: Standard Rush 48 hours 490 hours 16 hours 16 hours 17 hours 16 hours 17 hours 16 hours 17 hours 18	Standard Rush 48 how 5 Address: Project Name:	Standard Rush 48 hows Project Name: Received by:	Standard Rush 48 hows Project Name: Received by: Received by: Received by: Received by: Rush 48 hows Rush 490 how	Standard Project Name: Cey Bringy Htt 64 ANAL www.hall 4901 Hawkins NE - Tel. 505-345-3975 AP Other On loc: Yes No AP Other Sample Temperature: AP On loc: Yes No On loc: Yes Yes No On loc: Yes	Standard PRush PBbows Project Name: Cay Bridgy HH64 Project Name: Project Name:	Standard Rush 48 hours 4901 Hawkins NE - Albuque Tel. 505-345-397 Fax Fax#: Cīndy . 9 ray . Standard Level 4 (Full Validation) Sampler: Thouas Long Container Type Time Matrix Sample Request ID Container Type and # Type Time Matrix Sample Request ID Container Type and # Type Time Apply Apply	Standard Rush 486ms Project Name: Cy Enway Hyby Apol Hawkins NE - Albuquerque	Standard Rush 48 hows Project Name: Cy Enorgy HHH64	Standard Rush 18bors Project Name: (cy Enorgy HH/64 National Natio	Standard Rush 48645 Project Name: Project #: #: Address: Project #: #: #: Project #: #: #: Project #: #: #: #: #: #: #: #: #: #:	Standard Project Name: Standard Project Name: Standard Project Name: Standard S

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-138 Revised March 12, 2007

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Name and Facility Permit #: Industrial Ecosystems, Inc. Address of Facility: Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)	1. Generator Name and Address: Key Energy, 5651 U.S. Hwy 64, Farmington, NM 87401
4. Source and Description of Waste: Sludge and rinsate from wash bay sumps in vac truck service area Estimated Volume 100 bis yd³ / bbis Known Volume (to be entered by the operator at the end of the haul) yd³ / bbis	
Estimated Volume 100 bbl yd³/bbls Known Volume (to be entered by the operator at the end of the haul). S. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS Key Energy Services	
S. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS Cynthia Gray	
I. Cynthin Gray	Estimated volume and of the hauf yd 7 bols Known volume (to be entered by the operator at the end of the hauf)
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I	1. Cynthia Gray Gray , representative or authorized agent for Key Energy Services do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS	characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Industrial Ecosystems, Inc. Address of Facility: Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)	GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, representative for do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
Name and Facility Permit #: Industrial Ecosystems, Inc. Address of Facility: Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)	5. Transporter:
Address of Facility: Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)	OCD Permitted Surface Waste Management Facility
Method of Treatment and/or Disposal: Evaporation	Name and Facility Permit #: Industrial Ecosystems, Inc.
□ Evaporation □ Injection □ Treating Plant □ Landfarm □ Landfill □ Other Waste Acceptance Status: □ APPROVED □ DENIED (Must Be Maintained As Permanent Record)	Address of Facility:
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)	Method of Treatment and/or Disposal:
☐ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)	☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other
PRINT NAME:	Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
MILL WANTED	PRINT NAME: DATE:
SIGNATURE: TELEPHONE NO.:	

Hall Environmental Analysis Laboratory, Inc.

Date: 19-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107566

Project:

Key Energy Yard

Lab ID:

1107566-01

Client Sample ID: Sump 1 West Bay

Collection Date: 7/14/2011 3:45:00 PM

Date Received: 7/15/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY	A A PARTIES	SALES	PT.		Very good at	Analyst: MBR
Mercury	ND	0.00020		mg/L	1	7/19/2011 2:55:29 PM
EPA 6010B: TOTAL RECOVERABL	E METALS					Analyst: TES
Arsenic	ND	0.020		mg/L	1	7/18/2011 2:41:53 PM
Barium	0.095	0.020		mg/L	1	7/18/2011 2:41:53 PM
Cadmium	ND	0.0020		mg/L	1	7/18/2011 2:41:53 PM
Chromium	ND	0.0060		mg/L	1.00	7/18/2011 2:41:53 PM
Lead	ND	0.0050		mg/L	1	7/18/2011 2:41:53 PM
Selenium	ND	0.050		mg/L	1	7/18/2011 2:41:53 PM
Silver	ND	0.0050		mg/L	1	7/18/2011 2:41:53 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 19-Jul-11
Analytical Report

CLIENT:

Souder, Miller and Associates

Lab Order:

1107566

Project:

Key Energy Yard

Lab ID:

1107566-02

Client Sample ID: Sump 4 North Bay

Collection Date: 7/14/2011 3:55:00 PM

Date Received: 7/15/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY	THE STATE OF	+ 13	34.7	Digital C	10 198.93	Analyst: MBR
Mercury	ND	0.00020		mg/L	1	7/19/2011 2:57:17 PM
EPA 6010B: TOTAL RECOVERABLE	METALS					Analyst: TES
Arsenic	ND	0.020		mg/L	1	7/18/2011 2:44:21 PM
Barium	0.12	0.020		mg/L	1	7/18/2011 2:44:21 PM
Cadmium	ND	0.0020		mg/L	1	7/18/2011 2:44:21 PM
Chromium	ND	0.0060		mg/L	1	7/18/2011 2:44:21 PM
Lead	ND	0.0050		mg/L	1	7/18/2011 2:44:21 PM
Selenium	ND	0.050		mg/L	1	7/18/2011 2:44:21 PM
Silver	ND	0.0050		mg/L	1	7/18/2011 2:44:21 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits



Generator's Non-hazardous Waste Profile Sheet

10. NAICS Code: 11. Generator USEPA ID #:		or this waste. Attach additional lo	cations.	
8. Phone: 1-505-325-5667 9. FAX: 1-505-327-1496 10. NAICS Code:	A. Waste Generator Facility Information (mu	st reflect location of was	te generation/origin	1)
8. Phone: 1-505-325-5667 9. FAX: 1-505-327-1496 10. NAICS Code:	. Generator Name: Key Energy			
10. NAICS Code: 11. Generator USEPA ID #: Scientist 12. State ID# (if applicable): e as above P. O. Number: 5121216 tes 6. Phone: 505-325-7535 FAX: 505-326-0045 7. Transporter Name: Southwest Field Services 1 8. Transporter D# (if appl.): 9. Transporter Address: 1210 Hutton Rd. om 10. City, State and ZIP: Farmington, New Mexico, 87402 ss open-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: Liquid □ Powder □ Semi-Solid or Studge □ Other: layer ☑NA If Yes, Describe: ☑ NA(solid) NA(solid) NA(solid) □ 140°-199°F □ ≥ 200°F ☑ NA(solid) this of waste stream - (e.g. Soil 0-80%, Wood 0-20%): □ (See Attached) Lower Range □ Unit of Measure □ Upper Range □ Unit of Measure − 99% <1%	. Site Address: 5651 US Highway 64	7. Email Address: cindy.gr	ray@soudermiller.com	
11. Generator USEPA ID #: Scientist 12. State ID# (if applicable): e as above P. O. Number: 5121216 tes 6. Phone: 505-325-7535 7. Transporter Name: Southwest Field Services 1 8. Transporter ID # (if appl.): 9. Transporter Address: 1210 Hutton Rd. om 10. City, State and ZIP: Farmington, New Mexico, 87402 so open-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: 1 Isiquid Powder Semi-Solid or Studge Other: 1 Isiquid Powder NA If Yes, Describe: 1 NA(solid)	. City/ZIP: Farmington, 87401	8. Phone: 1-505-325-5667	9. FAX: 1-505-32	27-1496
Scientist 12. State ID# (if applicable): e as above P. O. Number: 5121216 tes 6. Phone: 505-325-7535 7. Transporter Name: Southwest Field Services 1. 8. Transporter ID # (if appl.): 9. Transporter Address: 1210 Hutton Rd. om 10. City, State and ZIP: Farmington, New Mexico, 87402 is open-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: Liquid Powder Semi-Solid or Sludge Other: layer NA If Yes, Describe: NA(solid) NA(solid) NA(solid) NA(solid) NA(solid) NA(solid) NA(solid) Lower Range Unit of Measure >99% < 1% Unit of Measure Upper Range Unit of Measure P. O. Number: 5121216 Unit of Measure Violation (See Attached) Unit of Measure Upper Range Unit of Measure Upper Range Unit of Measure Upper Range Unit of Measure Semi-Solid Measure Upper Range Unit of Measure Upper Range Unit of Measure Violation (See Attached)	State: NM	10. NAICS Code:		SHEET BUSY
P. O. Number: 5121216 les 6. Phone: 505-325-7535 FAX: 505-326-0045 7. Transporter Name: Southwest Field Services 1 8. Transporter ID # (if appl.): 9. Transporter Address: 1210 Hutton Rd. 10. City, State and ZIP: Farmington, New Mexico, 87402 sopen-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: Liquid Powder Semi-Solid or Sludge Other: Liquid Powder Semi-Solid or Sludge Other: NA(solid) NA(solid) NA(solid) NA(solid) 140°-199°F ≥ 200°F NA(solid) Na(solid) NA(solid) NA(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid) Na(solid)	County: San Juan	11. Generator USEPA ID #:		
tes 6. Phone: 505-325-7535 FAX: 505-326-0045 7. Transporter Name: Southwest Field Services 1 8. Transporter ID # (if appl.): 9. Transporter Address: 1210 Hutton Rd. om 10. City, State and ZIP: Farmington, New Mexico, 87402 is open-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard iibe: Liquid Powder Semi-Solid or Sludge Other:	Contact Name/Title: Cynthia Gray, Senior Scientist	12. State ID# (if applicable):	
7. Transporter Name: Southwest Field Services 8. Transporter ID # (if appl.): 9. Transporter Address: 1210 Hutton Rd. 10. City, State and ZIP: Farmington, New Mexico, 87402 sopen-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: Liquid	B. Customer Information 🗆 same as above	P. O. Number: 5121216	A STATE OF THE SECOND	
8. Transporter ID # (if appl.): 9. Transporter Address: 1210 Hutton Rd. 10. City, State and ZIP: Farmington, New Mexico, 87402 is open-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: Liquid Powder Semi-Solid or Sludge Other: layer NA If Yes, Describe: NA(solid) NA(solid) NA(solid) NA(solid) NA(solid) Lower Range Unit of Measure Upper Range Unit of Measure >99% < 1% Vint of Measure Upper Range Unit of Measure Upper Range Unit of Measure >99% < 1%	Customer Name: Souder, Miller & Associates	6. Phone: 505-325-7535	FAX: 505-326-0045	
9. Transporter Address: 1210 Hutton Rd. 10. City, State and ZIP: Farmington, New Mexico, 87402 so open-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: Liquid Powder Semi-Solid or Sludge Other: Liquid Powder Semi-Solid or Sludge Other: Liquid NA(solid) NA(solid) NA(solid) NA(solid) 140°- 199°F ≥ 200°F NA(solid) htts of waste stream - (e.g. Soil 0-80%, Wood 0-20%): (See Attached) Lower Range Unit of Measure Upper Range Unit of Measure Semi-Solid Measure Upper Range Unit of Measure Semi-Solid Measure Upper Range Unit of Measure Semi-Solid Measure Semi-Solid Measure Semi-Solid Measure Upper Range Unit of Measure Semi-Solid Measu	Billing Address: 2101 San Juan Blvd.	7. Transporter Name: South	vest Field Services	
as open-top surface tank pieces r Source of Contamination: ean-up excavation of an oilfield service company yard ibe: □ Liquid □ Powder □ Semi-Solid or Sludge □ Other: □ Liquid □ Powder □ Semi-Solid or Sludge □ Other: □ WA If Yes, Describe: □ NA(solid) □ NA(solid) □ NA(solid) □ 140°- 199°F □ ≥ 200°F ☑ NA(solid) ats of waste stream - (e.g. Soil 0-80%, Wood 0-20%): □ (See Attached) □ Lower Range □ Unit of Measure □ Upper Range □ Unit of Measure >99% <1%	City, State and ZIP: Farmington, NM, 87401	_ 8. Transporter ID # (if appl.):		
ibe:	Contact Name: Cindy Gray	9. Transporter Address: 121	0 Hutton Rd.	
ibe:	Contact Email: cindy.gray@soudermiller.com			
ibe:	C. Waste Stream Information	TWY THE CHEST OF THE		AND SHALL AV
nts of waste stream - (e.g. Soil 0-80%, Wood 0-20%): Lower Range				
>99%	f. Layers? Single layer Multi-layer NA g. Water Reactive? Yes No If Yes, Describe h. Free Liquid Range (%): to NA i. pH Range: NA to NA NA(solid)	Powder Semi-Solid or Sludg A B: NA(solid)	e Other:	
<1%	d. Strong Odor? Yes No Describe:	Powder □ Semi-Solid or Sludg A B: NA(solid) □ ≥ 200°F ☑ NA(solid) cam - (e.g. Soil 0-80%, Wood 0-20	d) (See Attached)	
	d. Strong Odor?	Powder □ Semi-Solid or Sludg A SEMI-Solid or Sludg NA(solid) □ ≥ 200°F ☑ NA(solid) NA(solid) Lower Range □ Unit of M	d) (See Attached)	
	d. Strong Odor? Yes No Describe:	Powder ☐ Semi-Solid or Sludg A B: NA(solid) ☐ ≥ 200°F ☑ NA(solid) Fam - (e.g. Soil 0-80%, Wood 0-20) Lower Range ☐ Unit of M >99%	d) (See Attached)	
	d. Strong Odor? ☐ Yes ☑ No Describe:	Powder ☐ Semi-Solid or Sludg A B: NA(solid) ☐ ≥ 200°F ☑ NA(solid) Fam - (e.g. Soil 0-80%, Wood 0-20) Lower Range ☐ Unit of M >99%	d) (See Attached)	
	d. Strong Odor? ☐ Yes ☑ No Describe:	Powder ☐ Semi-Solid or Sludg A B: NA(solid) ☐ ≥ 200°F ☑ NA(solid) Fam - (e.g. Soil 0-80%, Wood 0-20) Lower Range ☐ Unit of M >99%	d) (See Attached)	
HIPPING INFORMATION that Event Tons Cubic Yards Drums Gallons Other (specify): Units per Month Quarter Year One Time Other	d. Strong Odor? ☐ Yes ☑ No Describe:	Powder ☐ Semi-Solid or Sludg A B: NA(solid) ☐ ≥ 200°F ☑ NA(solid) Fam - (e.g. Soil 0-80%, Wood 0-20) Lower Range ☐ Unit of M >99%	d) (See Attached)	
	d. Strong Odor? ☐ Yes ☑ No Describe:	Powder □ Semi-Solid or Sludg A B: NA(solid) □ ≥ 200°F ☑ NA(solid) cam - (e.g. Soil 0-80%, Wood 0-20 Lower Range Unit of M >99% <1% RMATION	d) Other: (See Attache upper Range	ed)

4	01	4	ne	N	
		44.1		w	IIVI

D. Regulatory Status (Please check	appropriate responses)			
1. Waste Identification:				99
a. Does the waste meet the definition of a USEF l. If yes, please complete a hazardous wa	PA listed or characteristic hazardous waste as defined steprofile.	d by 40 CFR Part 261	? 🗆 Yes	Q I
b. Does the waste meet the definition of a state 1. If yes, please complete a hazardous wa	hazardous waste other than identified in D.1.a? ste profile.		☐ Yes	N
2. Is this waste included in one or more of categori	ies below (Check all that apply)? If yes, attach suppo	rting documentation.	☐ Yes	Q V
☐ Delisted Hazardous Waste	☐ Excluded Wastes Under 40CFR 261.4			
☐ Treated Hazardous Waste Debris	☐ Treated Characteristic Hazardous Was	te		
3. Is the waste from a Federal (40 CFR 300, Appendi	ix B) or state mandated clean-up? If yes, see instruction	ıs.	☐ Yes	MI
4. Does the waste represented by this waste profi	ile sheet contain radioactive material?		☐ Yes	MI
a. If yes, is disposal regulated by the Nuclear R	Regulatory Commission?	☐ Yes ☐ No		
b. If yes, is disposal regulated by a State Agend	cy for radioactive waste/NORM?	☐ Yes ☐ No		
 Does the waste represented by this waste profit (If yes, list in Chemical Composition - C.1.1) 	le sheet contain Polychlorinated Biphenyls (PCBs)?		☐ Yes	Ø 1
a. If yes, are the PCBs regulated by 40 CFR 761	?	☐ Yes ☐ No		
	being performed under the Self-Implementing optic	on provided in		
40 CFR 761.61(a)?		Yes UNo		
c. If yes, were the PCBs imported into the US?		☐ Yes ☐ No		
6. Does the waste contain untreated, regulated me	edical or infectious waste?		U Yes	
7. Does the waste contain asbestos?			☐ Yes	N I
a. If Yes,		☐ Friable ☐	Non Fria	ble
8. Is this profile for remediation waste from a facil	lity that is a major source of Hazardous Air Pollutants	(Site Remediation N		
40 CFR 63 subpart GGGGG)?			☐ Yes	Q I
a. If yes, does the waste contain <500 ppmw V	OHAPs at the point of determination?	Yes No		
E. Generator Certification (Please re	ead and certify by signature below)			100
By signing this Generator's Waste Profile Sheet, I	hereby certify that all:			
1. Information submitted in this profile and all atta	ached documents contain true and accurate descript	ions of the waste mat	erial;	
Relevant information within the possession of the disclosed to WM/the Contractor;	ne Generator regarding known or suspected hazards	s pertaining to this wa	aste has l	oeen
3. Analytical data attached pertaining to the profil	led waste was derived from testing a representative	sample in accordance	e with	
40 CFR 261.20(c) or equivalent rules; and				
	e (i.e. changes in the process or new analytical) will pplicable) prior to providing the waste to WM (and	ALTONOMICS CONTRACTOR OF THE PROPERTY OF THE P		or
5. Check all that apply:				
D *** 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
a. Attached analytical pertains to the waste	e. Identify laboratory & sample ID #'s and paramete# Pages:	rs tested:		
b. Only the analysis identified on the attac		sample ID #'s and p		S
b. Only the analysis identified on the attactested). Attachment #:	# Pages:# Pages:# hment pertain to the waste (identify by laboratory &aracterize the profiled waste has been attached (other	sample ID #'s and p	arameter	
b. Only the analysis identified on the attactested). Attachment #: c. Additional information necessary to character the number of attached pages:	# Pages:# Pages:# hment pertain to the waste (identify by laboratory &aracterize the profiled waste has been attached (other	sample ID #'s and po	arameter ch as MSI	os).
b. Only the analysis identified on the attactested). Attachment #: c. Additional information necessary to character the number of attached pages: d. I am an agent signing on behalf of the G	# Pages: chment pertain to the waste (identify by laboratory & exacterize the profiled waste has been attached (other 1	sample ID #'s and po	arameter ch as MSI is signatu	os).
b. Only the analysis identified on the attactested). Attachment #: c. Additional information necessary to character the number of attached pages: d. I am an agent signing on behalf of the Gris available upon request. Certification Signature:	# Pages: chment pertain to the waste (identify by laboratory & paracterize the profiled waste has been attached (other than the delegation of authority to me from the profile in the delegation of authority to me from the delegation of authority to me f	er then analytical, such the Generator for the	ch as MSI	os).
b. Only the analysis identified on the attactested). Attachment #: c. Additional information necessary to character the number of attached pages: d. I am an agent signing on behalf of the Gris available upon request.	# Pages: chment pertain to the waste (identify by laboratory & exacterize the profiled waste has been attached (other 1	er then analytical, such the Generator for the	ch as MSI	os).

Profile

Comments

WM of NM - San Juan County 78 County Road 3140 Aztec, NM, 87410 Ph: (505) 334-1121

Original Ticket# 1373378

Customer Name SOUDERMILLERASS SOUDER MILLER Carrier SOUFIE SOUTHWEST FIELD SERVICES Ticket Date 07/22/2011 Payment Type Credit Account Vehicle# 126 Volume Container Manual Ticket# Driver Hauling Ticket# Check# Route Billing # State Waste Code 0000062 Gen EPA ID Manifest 19432 Destination Grid PO

101405NM (Key Energy Services, Inc) Generator 153-KEYENERGYSERVICESINC Key Energy Services, Inc.

Time Scale

07/22/2011 09:35:16 07/22/2011 09:50:37

Inbound 301 Outbound 302

Operator mgonzales mgonzales

Inbound Gross Tare Net Tons

9080 1b 8100 lb 980 lb 0.49

Product		WAST	E MAA	BIANCHE	Of the last two prices
	LD%	Qty	UOM	Rate	Tax Amount
1 SpwasteSolidOth-Cu	100	3.00	Yards		

PEENV-T-Environmen 100 FUEL-T-Fuel Surcha 100

FARM FARM FARM

Origin

377-1003

Total Tax Total Ticket

river's Signature Wesser

NAME OF TAXABLE PARTY OF TAXABLE PARTY.				
SPECIAL				
		/ I 1 12 Hz	SE - 1 - 1 Aur S	1 = 1 = 2
	50 - 1 H I I _ / \	/ E seed & V 86 80	20 _ 1 = 1 0 T W	
	100 A 2 1 1 100 A			4 8 1 4

WASTE MANAGEMENT OF NEW MEXICO, INC. SAN JUAN COUNTY REGIONAL LANDFILL

PERMIT #SWM-052426, #SWM-052426SP

#78 CR 3140 P.O. Box 1402

Shipment #

505/334-1121 SW FRLUS	5 # 126		
1. Generator's Work site name and address (phys	ical site address of waste genera	tion)	
2. Generator's name and address Key Farry Services SUST Hwy 64 Farming t	m, NM 87401	Generator's Telephone no.	
3. Authorized Agent name and address (if different Souder, Miller & Associutes 2101 San Juan Blow, Farm,	Agent's Telephone no. 325-5667		
4. Description materials	5. Container's No. Type	6. Total Quantity (tons) (yd3) 340	
Fiberglass tack pieces		2.3	
7. Special handling instructions			
8. GENERATOR or AUTHORIZED AGENT CERTIF are fully and accurately described above and are on in proper condition for transport by highway in accordance to the certify that the above named material does not a hazardous waste as defined by 40CFR 261 or any	classified, packed, marked and I dance with applicable internation ot contain free liquid as defined b	abeled, and are in all respects at and government regulations.	
Generator or Agent (Printed/typed name and title) VeyEnergy Scrutes by Conthin Gray 9. Transporter 1 (Acknowledgement of receipt of ma	411	Month/Day/Year 7 b2//1	
Printed/typed name & title, address, telephone no.	Driver Signature Derman Han	Month/Day/Year	
10. Transporter 2 (Acknowledgement of receipt of n			
Printed/typed name & title, address, telephone no.	Driver Signature	Month/Day/Year / /	
11. Discrepancy indication space			
12. Waste disposal site Location co-ordinates (X, 100 400 400 400 400 400 400 400 400 400	SJC Landfill Rep. Signal	ture Month / Day / Year Jan J	

COMPA	NY NAME:	Soil I	strial Ecosyt Reclamation rial Tracking	Center		Date. <u>6/30/11</u>	(3)	
		DOG TO	Line	Or 1		COMPANY REP. Tank	martife	
OKIGIN	OF MATERIAL	(LOCATION): RULL	4	nel		PAYKEY/P.O#	D) /	
NOTES:	Dow	thrust fiel	d X	21/.	-2	H2S GAS NON DETEC	DETECT PH	TDS
						Paint Filter Test:	Passed D Failed	
Date	Time	Transported by	Truck#	Vanda	Berrels			☐ Pit ☐ Tank
1/0/29	0181101	Snithwest	17//	Yards	_ Berreis	Driver's Name (Print)	Driver's Signature	Time Out
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3 (9:08	Southwest	211	190	1/8	Rohdit	Clay America	8/39
4	9:18	Swence	002	18	10	70000	100 may	0:38
5	6,85	DOLFHL DUT	1.911	10	10	Ponito	Pur And	10:08
6	10:10	Disco	000	18	1/8	Char	(Va)	10:23
7 8	10:30	DUTPUGT	211	10	10	Roda	Best dan.	10:56
9	14.30	Juliago e	000	18	18	Colley	Clay 2	11:10
10	111-57	souther t	200	10	10	KUDOL	"Want John;	11:41
11	1200	mellinga	00a	18	1/8	Clan	Clay	12:00
12	11/2	Soldhard	911	10	10	Repart	The Spring	12:30
13	11:00	South 1900+	211	18	18	Clay	Clay-	1:14
14	1155	Duff Liber	002	10	10	Kopert	The Har	1:100
15	2001	5Nithexa -	1111	18	68	Celen M	Charles	2:09
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27	F 50 7	/~	100					

VS 262 CM

	andustri Conviens I	Soil	strial Ecosyte Reclamation erial Tracking	Center		Date. <u> </u>	NONE	D,
COMPA	NY NAME:	ander IV	. Le	Y		COMPANY REP.	n. 1 10	tel ,
ORIGIN	OF MATERIAL	(LOCATION): Kee	410	rell	-	PAYKEY/P.O#	011	MARTIN
NOTES:	Sout	hurest/ =	eree	80		H2S GAS NON DETE	CT DETECT	TDS
						Paint Filter Test:	☐ Passed ☐ Failed	
Date	/ Time	Transported by	Truck#	Vanda	Barrels	Driver's Name (Print)	Driver's Signature	☐ Pit ☐ Tanks
Date	Time	Transported by	Truck#	Yards	Dagreis	Onver's Name (Frinc)	1000	Time Out
2	18100	Dulla soa	211	18	10	355	70 4/1 ~	8:12
771	10.01	DUTY MOST		10	10	ROWells	The folian	A A
3 //	1021	tilker on	000	18	10	5600	5000	12:30
4 /	13:32	TUTHUNT	7500	10	10	School	The fair	7.00
5	73/32	evely on	400	1/2	X	Call	a de de la companya della companya della companya de la companya della companya d	7:4
6	1000	JOHN COST	and (10	1,0	KODIE	The trans	12.00
7	100	2000 Ca	000	-/-	14	- Comment	Cear	1014
8	10:31	Douthouset	0-11	10	10	Rubert	Robert	111.23
9	11150	Siffle	000	100	18	Change	coar	111:30
10	11.70	Jachhoost	011	10	19	Fables	There	11:40
11	1:65	Jule la	000	16	18	Collen	Clay	1.50
12	1:26	Jon Howellust	211	10	10	KUBELF	There	11:59
13	212	VIVER POL	000	18	1	Clary	Clay	2,24
14	12:14	Frith Quit	-1211	10	10	Kilbert	Rotto	2125
15	,300	Sulla le.	000	18	18	Clay	1000	3:17
16	13105	Southburt	124	0	10	Kobert	The	3:20
17	13:58	Sweger	(00)	18	1/2	alen.	Clay	
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		ACCUPATION TO	57	N.A	Arter Serection) -	52 VS	
			50	CNI				
		1	-)0	1				

		Men	Soil	strial Ecosyte Reclamation rial Tracking	Center		Date		
C	OMPANY	NAME:	Douden 1	nille	2/		COMPANY REP.		
0	RIGIN O	F MATERIA	L(LOCATION): Ken	ua	rd		PHONE # PAYKEY/P.O#	NOKE	exemp
	OTES:_	50	thurst/	Lies	de		H2S GAS NON DETEC	T DETECT	TDS
							Paint Filter Test:	☐ Passed ☐ Failed	☐ Pit ☐ Tanks
	2.1.	-		T	V4-	VS	> D.t 1 No 1 (D.t 1)		
1	Date	Time	Transported by	Truck#	Yards	Barrets	Driver's Name (Print)	Driver's Signature	Time Out
2	-	81760	Shuthy Sont	211	18	18	2 Chest	De X	18:00
3	1	7.71	Suchazea	000	18	18	Can	1024-	9:22
4	1	9:17	couthwest	1211	10	10	Ver Alen France	The A	9:24
5		10:00	Digarei	000	16	18	Cla-	Coay	10:11
6		DIAO	South & st	211	10	10	me) h Que	Dark	70.14
7		1075C	Julale	WOE	18	18	Com	Clay	111.00
8		10:50	Southerest	211	10	10	Doub .	Rule	11:05
9	1	11:35	Muerzea "	009	IX	18	Stary	Clay	111.45
10	1	111.37	Southwest	211	10	10	Robert	及一切	1115
11	1	11:55	Shullet	Home	10	10	Henry	701MA	12/10
12	1	12:00	Jula la	000	18	18	China	rugu	1240
13		1230	Dethibest	211,	10	10	KODENT	74	12.43
14		12.41	South West	19F-4	10	10	Henry	Muy	1215
15	_	(.JX	July 1	000	10	10	Cya	000	1,50
16	1	1:70	Duther 107	210	10	10	CODUT	74	1:36
17		1.0	Southwest	AF4	10	10	Henry	Dlay	1433
18		31/3	X Gazle	003	1 %	3/0	Stony	2019 A	131/1
19	tanning -	13:11G	XIII BULL	AF4	10	10	KOBIA	Thomas	2125
20		3:15	Ald held	002	12	1/2	77111	/ Way	3:20
22		30	SOLIT THE STATE OF	311	113	10	District	700	3:30
23		1.21/15	TO ALL THE DATE OF	1	10	10	There	Muss	3:25
24	Contract of the last	4:10	Surazea	1002	18	18	Henry	O Ten	4:20
25	-	1,05	SW	1211	10	10	Robert	gran de la companya d	4.25
20	77.90	4.10	81.7	AFY	10	- Commence	Henry	Thun	4:36
		1.10	- Jed	77 1	10	-	uren 7	1 000/1	7

	* - /15/1 ₉₃₁ +20+
-	夏更黄小
A Marie	dustrial
M. Square	ystems Inc

Industrial Ecosytems Inc Soil Reclamation Center Material Tracking Sheet

Date.	7-60-11	(Ca)
		(le)

ORIGIN OF MATERIAL (LOCATION): Key (March Phone # PAYKEY/P.O#	EMEM PT DETECT TDS
ORIGIN OF MATERIAL (LOCATION): Kenj (Januar) PHONE # PAYKEY/P.O#	DETECT /
ORIGIN OF MATERIAL (LOCATION): Keen Attack Paykeyip.o#	
NOTES: ON TIMES / ALICAGE A H2S GAS - NON DETECT -	
NOTES: ON TIME A LIGHT A H2S GAS NON DETECT	
	TDS
ChloridesPH	
Paint Filter Test:	☐ Failed
Tank like rest.	☐ Pit ☐ Tar
Date Time Transported by Truck# Yards Basels Driver's Name (Print) Driver's	Signature Time Out
17/1/8/17 Diele Ca 1002 18 18 Clary (Car	V 177
2 / 8 12 Southidelat 21/ 10 10 Ruber But	1 14/38
3 8:85 See (a OU 12 12 GAMINZONS HAN	1 8/25
4 9:05 Successon 000 18 18 CLAY Sucres Clay	5 678
5 9:05 Southusent 210 10 10 Popert 18-7	10:15
5 1 9108 Succession 001 12 12 GARM Have	1 0118
1 1955 Sunge 00= 15 1 Class Clas	- 10:08
8 955 South Rust 21 10 10 ROBUS 125	17:05
1 10:00 Soleries 001 12 12 Char	1 10:08
11:08 Succee OOD 18 1x clan clay	1/1:15
1 11:08 Southwest 2/1 10 10 Poblet Rule	11:70
2 11:12 Sueaca 001 15 12 Gara ban	11/125
3 1155 December 000 18 18 Class	12:060
4 11:58 Southast 211 10 10 Robert 24	12.121
5 12:01 Swater 501 12 6ary GAM	0 61:60
5 1110 Dutoca DDD 18 18 Cary Clay	1:21
1112 South Dest 21 10 10 Robert Tout	1.24
1116 Succes 001 12 13 Gary Dan	100
158 Sure See 000 18 18 Thank Clar	10:10
158 Southwest 211/9/0 Poblit 12.	10:12
1 273 Durenzea 1001 10 10 Gary Can	
2 250 sugar of 002 18 18 Clay Glav	3.05
3 2:50 SW 211 10 10 Robert Dut	3.03
5 3:41 Sweaten 001 12 12 Gary BARN	210
5 3:42 Sweare 007 19 18 Clay 3 3:45 Sw 31 10 10 10 Robbert Red	3:2
3:50 Carroles 001 12 12 Gary GAM	4:00

200 CM



Industrial Ecosytems Inc Soil Reclamation Center Material Tracking Sheet Date. 7-7-11 PS /

			Mater	ial Tracking	Sheet				7.1	
c	OMPAN	Y NAME:	Souder mi	ller			COMPANY REP. WO	4-EMEN	PT	
0	RIGIN O	F MATERIA	L(LOCATION): Keen	ya	rd		PAYKEY/P.O#	ST.		
			1		STREET, 10				-	are .
N	OTES:_	DOIL	thurst/s	vea	Le		H2S GAS NON DETEC	T DETECTPH	TDS	
							Paint Filter Test	☐ Passed ☐ Failed		
						115	Tunk inchines.	Drussea Drussea	☐ Pit ☐ Ta	anks
	Date	Time	Transported by	Truck#	Yards	Postalo.	Driver's Name (Print)	Driver's Signature	Time Out	
1	2/1	X·C	F1386300	CACI	1X	0	1 1-19-1	1000m	18:07	
2	1/1	KINN	Southwest	2/1	10	A	the the	10.5	8:08	
3	1	XINX	Hortman	75	15	0	Parer L. HARTHAN	The item.	W115	
4		X.U.	Saille CE	000	18	2	100	110 aux	18:47	
5	1	8:40	Southtorest	201	10	0	11 80h	100	8147	
6		18147	Hartman	75	18	0	1 Posts	I ca the	8:55	
7		9:70	Sutherent	011	10	0	Ribert	7245	9:21	
8		9:20	Sweenea	toa	18	7	Clan	Lelay,	9:31	
9		11:33	I and to San	75	1.8	0	Rose	Kar Illia	4:37	
10		4:55	thethingest	211	13	0	Robert	12 Act	10cx	
11	1	1075	SIDEOZEA.	702	19	0	Clay	clary.	10.20	
12		10:15	Hastman	75	18	0	Rocert	Kar Th	10.25	
13		10:30	Buthwest	211	10	0	Robert	Man 5	10:27	
14	1	10:55	5 weater	002	18	0	Clay	& Class.	10:55	
15		11:09	HARTMAN	15	18	0	Kolen	10 Har	11:13	
16	(1/1/20	Southwest	211	10	8	Kobut	mes	111:00	
17		11:26	July	1000	18	0	CLR	Glay	11:44	
18		1195	Hartou-	1	18		ROSOI,	1 segui	11138	
19		1/15	200	13/1	10	9	F. C. D.	2003	111.53	
20		12:4	Southwest	211	10	9	Kobes	Rent	12:54	
21		1:30	Southwest	211	10	0	FODE	Clay	1.20	
22	1	1:30	Shearen	002	168	0-	day	De la companya della companya della companya de la companya della	2:00	
23		1:31	Hartman	75	16	0	Roper	STATE	2:00	
24		2:00	3.0	211	10	2	REPLA	Thomas	2:05	
25 26		2:09	Sweezen	002	10	0	Clay	Clary	2:19	
27		2:35	Hartman	75	16	A	Roger! Rebert	107/00	0.11	
211	4	7.33	SW	1011	10	10	FODERT	Koro		

Industrial Ecosytems Inc. Soil Reclamation Center Material Tracking Sheet	
ORIGIN OF MATERIAL (LOCATION): Key Yard	COMPANY REP. NOW - EXEMP
NOTES: SW Sweazea	PAYKEY/P.O#
	Paint Filter Test: Passed Failed

Date	Time	Transported by	Truck#	Yards	Barrels	Driver's Name (Print)	Driver's Signature	Time Out
2	254	Sweazer	009	18		Clay	Clair	2 50
3	3:10	Hartman	75	18		Rocert	West	2.45
1/7		- Alleria - Landers - Land	176	10		Robert	table	2.20
5 4/	3:39	Swearer	1995	14		Clary	10 au	3:32
3		Hartman	75	18		Roger	(COSAL)	3:41
12.00	3.40		116	10		Robert	12 les	3:50
	4:10	SLI	002	18		Clay	clay.	4:17
	4:24	1)	211	10		Robert	The to	4:24
	7.00	Hartman	75	18	B 10 - 1	Rocer	Leggt	4:30
						7	1 ()	
2	De Clark							
	100							35 W.
								3 1900
							FORETS ASSESS	
2.1								
								A PROPERTY
	10-10-1	185K PR 185						
Tearling.								
	-1.34							
	(No. 10.0)							
							PECAL WEST	AL RECH
			and the same of th	_	1			
				7	X		18 18 18 18 18 18 18 18 18 18 18 18 18 1	
			/ =	36	1)			

Andwest fall

Industrial Ecosytems Inc Soil Reclamation Center Material Tracking Sheet Date. 7-8-11

COMPANY NAME: Souder Miller	COMPANY REP. NON-EXEMPT
ORIGIN OF MATERIAL (LOCATION): Key Yard	PAYKEY/P.O#
NOTES: Su Surazea	H2S GAS NON DETECT DETECT
1 500	ChloridesPHTDS Paint Filter Test:
30-7	☐ Pit ☐ Tank

Date	Time	Transported by	Truck#	Yards	Barrels	Driver's Name (Print)	Driver's Signature	Time Out
197	8050	SW	1211	10		Robert	The I	8:10
2 10	8: 10	Succes	003	18		Clau	MAGNET	8.15
3	8:406	Hartman	75	18	1	Rocard	Kell)	820
4		Sweazen	0.72	18		Page 1	1200	8:51
5	8-45	5w	211	10	1 1	Dahal	coan	8:50
6	8:53	Hertman	78	18		Robert	Roght	9:10
7	9:26	SW	211	10		Robert	Rober	7:30
8	9:36	Shenzen	002	18	Marie I	Cherr	Alau	9:40
9	9:40	Hartman	75	18		Roccot	1CA	9:46
10	10:02	SW	211	10	1	20 bert	There	10:10
11	10:35	SU	211	10	P	Obert	Theret	18:40
12	11:12	SW	211	10		Robert	Thut	
13	111.13	Sucarpa	000	18		CLAU	Clay	11:20
14	11/20	Hartman	75	18		Rosert	Const	11:20
15	1:08	5W	2-11	16	RELEASE.	parties t	the .	1:14
16	1.42	56	211	10	100 110	Robert	Rose	1.45
17	12:10	Sugarea	007	18	75.0	Pobl +	Glay	2:14
18	12:12	NU	911	10		Kohert	The	2:16
19	13:15	Hertonen	75	18		Roser	Regio	2/20
20	12:45	Q1:	211	10		Robert	745	2,22
21	3.20	Sh	17-11	10		2sket	The same	3:24
22	4:00	SW	211	10		Robert	a Regio	V: 65
23	11:00	Hartman	778	12		Hogen	tegu	
24	1,00					y	1//	
25							1/	
26								
27								

E-Pullatines Industrial Industrial Ecosytems Inc Soil Reclamation Center **Material Tracking Sheet** COMPANY NAME: COMPANY REP. PHONE #____ ORIGIN OF MATERIAL(LOCATION): PAYKEY/P.O# H2S GAS NON DETECT DETECT 75 Doger PH Chlorides TDS Paint Filter Test: ☐ Passed ☐ Failed ☐ Pit ☐ Tanks

		Transported by	Truck#	Yards	Barrels	Driver's Name (Print)	Driver's Signature	Time Out
17/11	8:10	SW	图11	10		Robert	Robert	8:20
2	8.21	Sweazea	505	18	0	la.	clay	8:30
3	8.27	Hurtman	27	18	I I	2059	Poss	8:30
4	8:45	SW	211	10	1	Robert	1005	8:22
5	9:20	SW	311	10	3	Pobert	River	9:25
6	9:50	Sueazea	002	18	C	1ay	clay	9.55
7	9.55	50	711 3	10		Robert	Res	10.00
8	10:08	Hutmen	175	18	7	Poger	Red	10:10
9	10:210	1.82	311	10	1	28bert	The state of	10:31
10	10:55		602	18		@ cuf	Clay	12:05
11	12.00	Sal	211	LO		(g beat	But 1	12:07
12	ILIT.	Hartmen	75	18		Ral	CAR	11:22
13	11:35	Swin	211	10		Papert	Rout	11:400
14	1:51	Sweazen	905	18	<u> </u>	lay	Color	1:38
15	11:51	Harfman	75	18]-	2 ocen-	Igitt	1:28
16	1:71	5W	911	10	D	pbert	The	1:31
17	9:00	2177	211	10	P	bert	76his	2:07
18	3:35	Sweazer	002	18	1	Clay	Clay	2:24
19 \	2:27	Hartman	75	18	I I	Roger	Copar	3:31
20	2.31	क्रांग	2k1	10		Robert	They	a.40
21	3:02	Sw	211	10	1	Lobert	This	3:07
22	3:26	Sueazea	005	18	<u> </u>	lay	poor	3:31
23	3:31	Hartman	75	18		ogen	Coppe	3:38
24	3:37	Su	211	10	R	obert	That	3:41
25	415	200	211	10	K	abort	Robert	4:20
26								
27				$\overline{}$				

COMPANY NAME:	nudos -	Industrial Ecosytems Inc Soil Reclamation Center Material Tracking Sheet				
COMPANY NAME:	action					
ORIGIN OF MATERIAL	LOCATION): KO	4				
NOTES: SW	Sueaze	~/Hartman				
Robert /	Clay	/ Roger				

COMPANY REP. Paul
PHONE #
PAYKEY/P.O#

H2S GAS NON DETECT PHOTE TOS

Paint Filter Test: Passed | Failed

	Date	Time	Transported by	Truck#	Yards	Barrels	Driver's Name (Print)	Driver's Signature	Time Out
1	07/12	8:15	Sweazen	002	16		Clau	Clay	8:24
2	1	8.19	Hartman	75	16		Root	Koket	8:25
3		8:24	SW	211	10		Robert	Then 5	8:26
4	A17 L	9:03	SW	211	10		Robert	Res	7:08
5		9:36	SW	211	10		Robert	1200	9:42
6		10:14	Sw.	211	10		Robert	Res	10:18
7	Trail I	10:46	Sw	211	10		Robert	But .	10:5)
8		11:20	Ju	211	10		Ribert	Row	11:25
9		1:15	SW	211	10		Robert	The	1:20
10		1:50	Sw	211	10		Robert	Res	1:55
11		2:23	SW	24	10		Robert	Po-	Q :30
12		3:55	SW	<u> </u>	10		Kobert	The Thirt	3.09-
13		3.31	Sw	211	10		Robert	Tu	3:37
14	1	4:13	80	211	10		Robert	There	4:16
15			alkalı da esti are de aleman alının de alemanı de alema						
16							Kenta Santana en Anti-Alexandra		
17									
18									-
19			Maria de la Companya del Companya de la Companya de la Companya del Companya de la Companya de l						MARKET THE
20									10000
21					27 (2.0)				
22		The same of							
23					P S				
24			All						
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26									
27						-			

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NOTES:

Industrial Ecosytems Inc Soil Reclamation Center Material Tracking Sheet

COMPANY REP. WY - Examp +
PHONE #
PAYKEY/P.O#

ORIGIN OF MATERIAL(LOCATION): Key

H2S GAS

Date.

Chlorides

Paint Filter Test:

NON-DETECT DETECT ____ TDS

cont. Soil

☐ Passed ☐ Failed ☐ Pit ☐ Tanks

	Date	Time	Transported by	Truck#	Yards	Barrels	Driver's Name (Print)	Driver's Signature	Time Out
17	/13	7:55	SW	211	10		Robert	There's	8:05
2	1	8:30	SW	211	10		Robert	100-	8:37
3	- 76	9:05	Sh	41	10		Robert	De-	9:00
4		5.44	SW	211	10		Popert	Themas	19.50
5	0 28	10:20	SW	211	10		Robert	Roser	10:28
6		10:55		211	10		Robert	The	11:00
7		11:31	SW	211	10		Robert	Rus	111:37
8					105				
9						THE ST			
10				S R Marillan				C Date A	
11					非 是 24				
12									1000
13						HEAL			
14			March Street and the			14.	47 THE 18 STATE OF THE PARTY OF		
15									
16							March 12 12 12 12 12 12 12 12 12 12 12 12 12		
17	l								
18		1000	Market Andrews	8 12 12					
19		Holling							
20							graduate and the	A SECTION	
21								A DESCRIPTION OF THE PROPERTY	
22									
23			A DANSE TRANSPORT						
24	and the second								
25									
26		2 14 / 15 / 10			_				
27					1	- The same of the			

70.00