GW - 125

Soil Remediation

2010 - 2011

Griswold, Jim, EMNRD

From:

Griswold, Jim, EMNRD

Sent:

Tuesday, March 08, 2011 9:36 AM

To:

'jknowlton@yatespetroleum.com'

Cc:

'jenniferk@yatespetroleum.com'; Swazo, Sonny, EMNRD

Subject:

Penasco CS

Jennifer,

I have reviewed the recommendations for installation and monitoring of passive soil ventilation at Agave's Penasco Compressor Station as provided by SESI in their letters of 2/7/11 and 3/4/11. Those efforts are hereby approved and you may begin installation of the vents as soon as possible. Please retain a copy of this email for your files as no hardcopy will be mailed. Thank you as always for your efforts and good luck. Please keep me apprised of your progress.

Jim Griswold Senior Hydrologist EMNRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 direct: 505.476.3465

email: jim.griswold@state.nm.us



P.O. Box 1613 703 E. Clinton Hobbs, New Mexico 88240 575/397-0510 Fax 575/393-4388

Safety & Environmental Solutions, Inc.

March 4, 2011

Mr. Jim Griswold Senior Hydrologist, Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Yates Penasco Compressor station, Passive Vent Well Installation

Dear Mr. Griswold:

This letter is an addendum to my correspondence of February 11, 2011 which provided recommendations for installation and monitoring of the passive ventilation wells at the Yates Penasco compressor station. It is submitted following yesterday's telephone conference call between OCD, Yates and myself that discussed monitoring and closure provisions in the letter. As a result of that conversation Yates is revising those sections of the February 11 letter and substituting the provisions below. For continuity, the description of the passive vent well installation is included.

Passive Vent Well Installation

Passive wind ventilation turbines will be installed at the former tank battery and Sump 23 locations. A passive system will be used due to the presence of lighter organics and the fact that the use of an active system would likely trigger air permitting requirements, delaying implementation of the vapor extraction system. The New Mexico Environment Department's Air Quality Bureau has been notified of the pending installation.

Eleven vents will be installed at the tank battery in a modified five-spot array. The distance between the vents will be approximately 15 feet. The pipe to be used is 3-inch PVC which will be slotted in a manner similar to pipe used in septic tank leach fields. At the tank battery the pipe will be slotted from 25 to 45 feet with blank pipe above. The annular space above 25 feet will be sealed with hydrated bentonite to prevent short circuiting of air.

At Sump 23 one vent will be installed in the center of the former sump and will be slotted from 10 to 45 feet. Again the upper area will be sealed with bentonite.

Monitoring

At both the former tank battery and sump 23 locations the individual pipes will be equipped with sample valves so that they can be monitored for vapors in the vent pipe. The vents will be shutin monthly for a 72 hour period and at the end of that period monitored for vapors using a PID. Additionally, the vent well at sump 23 and a representative sample of four vents at the tank battery location will be sampled quarterly with the first quarterly sampling to include an analysis for BTEX and other volatile hydrocarbons using EPA Method 8260. If the results of the first sampling do not show the presence of regulated volatile hydrocarbons other than BTEX,

subsequent quarterly samples may be analyzed using EPA Method 8021. The results of the PID measurement and laboratory testing will be submitted to the OCD in an annual report.

Based on our research, we do not recommend using CO_2 as an indicator of biodegradation. One reference text* on remediation with a section on bioventing cautions that higher pH and higher alkalinity soils will exhibit little CO_2 in soil gas due to the formation of carbonates. Soil water content will also impact the measurable CO_2 due to the solubility of the gas. At the a depth of 35 feet in the center tank battery boring we observed saturated clayey gravel (likely due to the previous flooding of the partially excavated pit; no other saturation was observed in the other borings). Therefore, monitoring of CO_2 may provide little information as the results may falsely show little or no activity, or indicate completion of activity when in fact microbial-generated CO_2 is being removed downhole. Monitoring with the PID together with initial and periodic BTEX sampling will best provide progress on remediation.

Closure

We propose closure of the passive ventilation system once we have two consecutive quarters with less than 100 ppm PID results and BTEX sampling provides confirmation of the results. At that time OCD will be advised of our intent to close the system and Yates will be requesting OCD approval. Upon approval by the agency, Yates will remove the vents or alternately, if removal is not possible, plug them by cutting off the PVC below grade and filling with bentonite which will be hydrated.

If you have any questions or I may be of further assistance, please call me at (575) 397-0510.

Sincerely,

s/DGB

David G. Boyer, P.G.

Encl.

cc. Jennifer Knowlton, Agave Energy

S.S. Suthersan, 1997. "Remediation Engineering, Design Concepts." Geraghty & Miller Environmental and Engineering Series, Lewis Publishers, New York.

Griswold, Jim, EMNRD

From:

Griswold, Jim, EMNRD

Sent: To:

Tuesday, March 01, 2011 4:15 PM 'ienniferk@vatespetroleum.com'

Cc:

'iknowlton@yatespetroleum.com'

Subject:

Penasco CS

Jennifer,

In an effort to expedite our planned teleconference of Thursday, I am sending you my current comments regarding the 2/7/11 submission by SESI regarding the installation of passive vents to deal with remaining soil contamination at Agave's Penasco CS west of Atoka. I will leave it to you to forward these comments to others as you see fit.

On Page 4 of the document discussing the well installation it states, "A passive system will be used due to the presence of lighter organics and the fact that the use of an active system would likely trigger air permitting requirements, delaying implementation of the vapor extraction system." To reiterate my past statements on the use of passive vs. active venting, in this instance with what appears to be a relatively modest volume of remaining contaminant mass, I have no problem with a passive system other than it would almost invariably require a longer time to reach closure. However, I am surprised Agave and SESI feel that emissions from even a passive system would not be of some concern to the NMED's Air Quality Bureau. I would think this would constitute only a minor modification to whatever permit you may have and can be dealt with quickly with a simple administrative approval. Nonetheless, they should be informed. I am willing to speak with them if you think it'll help.

Also on Page 4 in the section discussing monitoring, it basically says that every quarter each of the vents will be shut in for 3 days prior to sampling to allow for vapors to accumulate. Then a sample would be gathered for BTEX analysis. PID readings would be taken on a more frequent basis to evaluate the effectiveness of the system. Carbon dioxide will not be monitored as y'all feel the soil chemistry is such that it might lead to false conclusions as to the pace of remediation. Given that the probable released hydrocarbon was condensate, my concern is that SESI should analyze the laboratory samples by Method 8260 full list, at least at the start, rather than just for BTEX. However, all 11 of the proposed vents within the tank battery area do not need to be regularly sampled for lab analysis. Maybe just 3 or 4, but all should be monitored with the PID.

On Page 5 discussing system closure, Agave and SESI propose not submitting sampling data until 2 consecutive quarters with less than 100 ppm PID readings are achieved. A BTEX sample would also be taken at that time for lab confirmation. Furthermore, if the BTEX and PID data are both less than 100 ppm, you would either remove or plug the vents. Bless your heart for not wanting to trouble me any more than necessary. However, I respectfully suggest you get OCD concurrence before you go to all the expense of taking the vents permanently out of service. We need to consider advancing confirmation borings before implementing closure. Furthermore, annual reporting is justified.

Jim Griswold Senior Hydrologist EMNRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe. New Mexico 87505

direct: 505.476.3465

email: jim.griswold@state.nm.us

Griswold, Jim, EMNRD

From:

Jennifer Knowlton [jenniferk@yatespetroleum.com]

Sent: To: Thursday, February 24, 2011 9:12 AM 'David Boyer'; Griswold, Jim, EMNRD

Cc: Subject: 'Bob Allen'; 'Matt Joy' RE: Agave's Penasco CS

Mr. Grizwold,

Agave would like to see a draft of the conditions of approval if OCD is going to add monitoring and closure requirements that we haven't we yet. We will make every effort to turn around any drafts in as short a time as possible.

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: <u>iknowlton@yatespetroleum.com</u> Please change your address book!

----Original Message----

From: David Boyer [mailto:dgboyer@sesi-nm.com]
Sent: Thursday, February 24, 2011 9:10 AM

Sent: Thursday, February 24, 2011 9:10 AM

To: Griswold, Jim, EMNRD **Cc:** Bob Allen; Jennifer Knowlton **Subject:** RE: Agave's Penasco CS

Jim,

Thanks for the note. Will be looking for your comments.

Dave

David G. Boyer, P.G. Hydrogeologist Safety and Environmental Solutions, Inc.

P.O. Box 1613 703 E. Clinton Hobbs, NM 88241 office: 575-397-0510

fax: 575-393-4388 cell: 575-390-7067

email: dgboyer@sesi-nm.com

----Original Message-----

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]

Sent: Thursday, February 24, 2011 8:57 AM

To: <u>dgboyer@sesi-nm.com</u> **Subject:** Agave's Penasco CS

David,

Got your voicemail. Sorry I haven't been able to respond. Eyeballs and alligators, I'm sure you know the situation. I'm booked solid today, but am scheduled to speak with Sonny Swazo about the project tomorrow morning, so I will be in touch thereafter. My cursory review indicates were are going to need more specifics regarding monitoring and closure but those can be handled as conditions of approval rather than requiring resubmission (with Agave's agreement, of course). Thanks for your patience.

Jim Griswold Senior Hydrologist EMNRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 direct: 505.476.3465

email: jim.griswold@state.nm.us



RECEIVED OCD

P.O. Box 1613 703 E. Clinton Hobbs, New Mexico 88240 575/397-0510 Fax 575/393-4388 www.sesi-nm.com

Safety & Environmental Solutions, Inc.

February 7, 2011

Mr. Jim Griswold Senior Hydrologist, Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Griswold:

This letter provides specific recommendations for installation and monitoring of the passive ventilation wells at the Yates Penasco compressor station. It also summarizes the results of the work performed to date as that work supports the recommendations.

Two reports submitted to Yates in the fourth quarter of 2010 detailed the investigation conducted at the compressor station (Report of Investigation dated October 8, 2010) and the excavation and backfill of the tank battery location (Closure Report dated December 5, 2010). Copies of these reports were submitted to the Oil Conservation Division as part of the remediation process.

Background

Two areas originally contained sumps (Sump 2 and Sump 23) that were removed and contamination was found in the soil beneath the sumps. The third area originally contained above ground tanks (the tank battery) and contamination was found after the tanks were removed. The locations of the areas investigated are shown in the attached figures (site plan and aerial photograph).

At Sumps #2 and #23 the most highly contaminated soils were removed to a depth of 20' and 13' respectively. Subsequent sampling determined that neither vertical nor horizontal extent of contamination had been reached in either excavation.

Following earlier removal of the tanks, the bermed tank battery area was sampled and it too was determined that vertical and horizontal extent of contamination had not been reached.

Summary of October, 2010 Investigation Report

A soil boring investigation was conducted in June and July 2010 to determine horizontal and vertical extent of contamination at the three locations at the Yates yard. At each location borings were advanced to either auger refusal or until hydrocarbon impacted material was no longer encountered. Sampling results and analyses were previously reported and presented to Yates in the October report of Investigation.

Results of the review were compared with NM Oil Conservation Division "Guidelines for Remediation of Leaks, Spills and Releases" (1993) to determine the relative threat to public health, fresh waters and the environment, and to provide guidance for remediation.

Depth to water for the five wells closest to the Peñasco yard averages 182 feet. The closest private well is used by Yates and its distance is 285 feet from the location of Sump 2. The depth to water in that well was reported as 200 feet. Comparing values of depth to water, wellhead protection area and distance to a surface water body (ephemeral Peñasco Draw approximately 1,560 feet) with the ranking criteria results in a ranking score of 20 and establishes recommended remediation levels of benzene at 10 ppm (mg/Kg), total BTEX of 50 ppm and TPH of 100 ppm.

Based on the above ranking criteria, four of the soil borings from the tank battery location, two borings at the Sump 2 location and one boring from Sump 23 exceed the ranking criteria in one or more soil samples from each boring.

At the tank battery, two borings (center excavation, BSB-1, 40 feet; and south-side excavation, BSB-2, 42 feet) exceeded the 100 mg/Kg standard at boring total depth. At those depths, minimal levels of benzene, total BTEX and TPH remain in these two boreholes. Auger refusal in boulders and cobbles prevented further sampling below 40-42 feet from the surface. Vertical extent of contamination was established in tank battery borings other than those two shown above.

Though upper samples from both Sumps 2 and 23 showed contaminants above OCD standards, such contaminants were not detected at laboratory quantitation levels at boring depth.

The table attached with this letter presents a summary of the analytical results for those borings at the former tank battery, Sump 2 and Sump 23 not meeting the ranking criteria.

In accordance with OCD guidelines, the October 8 investigation report included recommendations for removal of highly contaminated soil in the tank battery area and passive wind ventilation turbine for remediation of soil exceeding guidance standards but not able to be excavated.

Contaminated soil had previously been removed to a depth of 20 and 13 feet at Sump 2 and Sump 23, respectively, which was the maximum practical depth at these locations, and to between 5 and 7 feet at the Tank Battery. Based on the results of the soil borings, additional excavation was a practical remedy only at the former Tank Battery location.

Summary of Closure Activities

Beginning October 25, 2010 and concluding on October 29, the tank battery location was excavated to a depth of twenty-four (24) feet below ground surface. Approximately 3,300 yards of contaminated soils were excavated from the tank battery area and transferred to Jay-Dan Land Farm, an OCD approved disposal facility. Returning trucks contained clean caliche for later backfill of the excavation.

In addition, several hundred yards of unsaturated, non-stained material were removed from the excavation and stockpiled on site for later return to the excavation. This material was tested on October 26 with results of the analysis shown in the table below. This material was directed to be blended with the caliche before placement in the excavation.

Soil Sample	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	Method 418.1 TPH (mg/Kg)
Non-stained								
stockpile	<0.100	0.100	<0.100	<0.100	<0.100	<10.0	25.1	110
Bottom								
(24'bgs)	<0.050	0.181	<0.050	<0.150	0.181	<10.0	89.4	170
West Wall	<0.050	0.054	<0.050	<0.150	0.054	<10.0	<10.0	<10.0
East Wall	<0.050	0.117	<0.050	<0.150	0.117	<10.0	<10.0	12.0
North Wall	<0.050	0.070	<0.050	<0.150	0.070	<10.0	22.9	100
South Wall	<0.050	0.155	<0.050	<0.050	0.155	<10.0	<10.0	10.0

NMOCD approved backfilling of the excavation on November 4, 2010; backfill began on November 10 and concluded on November 12, 2010. Approximately 3,536 cubic yards of caliche plus the non-stained stockpiled material were used as backfill. The location area was then contoured to its natural earth form.

Subsequent Work

With the completion of the excavation of the highly contaminated soil material, the following recommendations from the October 8 report remained:

- 1. Provided that air quality issues and/or permitting are not a restrictive consideration, installation of a grid of passive wind ventilation turbines is recommended with a grid pattern defined by battery soil boring locations BSB-1, BSB-2, BSB-4 and the sides of the existing excavation.
- 2. Installation of a passive wind ventilation turbine is recommended at the center of Sump 2 and the center of Sump 23 provided that air quality issues and/or permitting are not a restrictive consideration.

The above recommendations were discussed in a January 4 conference call with Mr. Jim Griswold, Senior Hydrologist with the Oil Conservation Division. Mr. Griswold requested that we perform contaminate mass calculations at the tank battery and Sump 23 locations. The results of those calculations, as well as the calculation for Sump 2, are shown below:

Total Mass	Benzene (Kg)	Total BTEX (Kg)	GRO (Kg)	DRO (Kg)	418.1 TPH (Kg)
Tank Battery	0.377	25.1	189	183	797
Sump 23	< 0.043	0.774	10.0	17.9	3,987
Sump 2	<0.008	<0.008	<0.165	4.55	59

Because the 418.1 TPH results are elevated in the analytical results, Cardinal Laboratories in Hobbs was requested to look at EPA method 8015 and 8260 chromatograms at all three locations for indications as to the hydrocarbon composition.

They reported that chromatograms at the tank battery and Sump 23 locations have the characteristics of petroleum condensate. However, neither of the two analytical methods would detect other organics such as ethylene glycol or organic soaps that might be contributing to the high 418.1 TPH in Sump 23. At Sump 2 they reported that the chromatograms were indicative of DRO hydrocarbons.

At my request they also reported results of higher range organics (MRO) not previously included in the method 8015 analytical report. For all three locations_and for all sample intervals, MRO was <10.0 mg/Kg. The MRO results are included in the table at the end of this letter. The absence of heavier hydrocarbons indicates that passive venting will be highly effective in removing the lighter ends at the former tank battery and Sump 23 locations.

During the conversation with Mr. Griswold on January 4 and based on the original GRO/GRO/418.1 TPH analytical data in the attached table, he recommended that no further action be taken at Sump 2. Supplemental data from Cardinal Laboratories further supports this recommendation as no hydrocarbons above diesel range organics were detected (MRO <10.0 mg/Kg). Additionally, 8015 TPH is less than the 100 mg/Kg OCD-TPH guideline for this location. Finally, though the 418.1 TPH values exceed 100 mg/Kg, maximum vertical hydrocarbon extent was determined (30 feet) and the depth to groundwater is in the range of 200 feet.

Passive Vent Well Installation

Passive wind ventilation turbines will be installed at the former tank battery and Sump 23 locations. A passive system will be used due to the presence of lighter organics and the fact that the use of an active system would likely trigger air permitting requirements, delaying implementation of the vapor extraction system.

Eleven vents will be installed at the tank battery in a modified five-spot array. The distance between the vents will be approximately 15 feet. The pipe to be used is 3-inch PVC which will be slotted in a manner similar to pipe used in septic tank leach fields. At the tank battery the pipe will be slotted from 25 to 45 feet with blank pipe above. The annular space above 25 feet will be sealed with hydrated bentonite to prevent short circuiting of air.

At Sump 23 one vent will be installed in the center of the former sump and will be slotted from 10 to 45 feet. Again the upper area will be sealed with bentonite.

Monitoring

At both locations the individual pipes will be equipped with sample valves so that they can be monitored for vapors in the vent pipe. The vents will be shut-in for a 72 hour period and at the end of that period monitored for vapors using a PID. The vents will be sampled quarterly with the first sampling to include an analysis for BTEX. Yates may decide to take more frequent PID measurements at the start of the remediation to ensure that the passive vent system is effective.

Based on our research, we do not recommend using CO_2 as an indicator of biodegradation. One reference text* on remediation with a section on bioventing cautions that higher pH and higher alkalinity soils will exhibit little CO_2 in soil gas due to the formation of carbonates. Soil water content will also impact the measurable CO_2 due to the solubility of the gas. At the a depth of 35 feet in the center tank battery boring we observed saturated clayey gravel (likely due to the previous flooding of the partially excavated pit; no other saturation was observed in the other borings). Therefore, monitoring of CO_2 may provide little information as the results may falsely show little or no activity, or indicate completion of activity when in fact microbial-generated CO_2 is being removed downhole. Monitoring with the PID together with initial and periodic BTEX sampling will best provide progress on remediation.

S.S. Suthersan, 1997. "Remediation Engineering, Design Concepts." Geraghty & Miller Environmental and Engineering Series, Lewis Publishers, New York.

Closure

We propose submitting results of the vent sampling once we have two consecutive quarters with less than 100 ppm PID results. At that time we will take a BTEX sample which should provide confirmation of the results. Upon confirmation of the 100 ppm PID results, we will remove the vents or alternately, if removal is not possible, plug them by cutting off the PVC below grade and filling with bentonite which will be hydrated.

If you have any questions or I may be of further assistance, please call me at (575) 397-0510.

Sincerely.

David G. Boyer,

Encl.

cc. Jennifer Knowlton, Agave Energy

Soil Boring Analytical Results (mg/Kg) Exceeding OCD Guidelines, June-July 2010 Penasco Yard Investigation

Location:	Boring ID and Corrected Depth (feet below original land surface)	Sample Date	Benzene (<10 mg/Kg)	Total BTEX (<50/mg/Kg)	GRO (C6- C10) (mg/Kg)	DRO (>C10- C28) (mg/Kg)	MRO (>C28- C35) (mg/Kg)	TPH (8015) (<100 mg/Kg)	TPH (418.1) (<100 mg/Kg)
Tank Battery	· · · · · · · · · · · · · · · · · · ·								
Center									
excavation	BSB-1, 10 ft.*	06/29/10	<0.050	<0.050	13.3	104	<10.0	117	1,580
Center									
excavation	BSB-1, 15 ft.*	06/29/10	<0.050	23.1	305	424	<10.0	729	1,500
Center									
excavation	BSB-1, 20 ft.*	06/29/10	1.68	118	1,420	1,240	<10.0	2,660	7,030
Center									
excavation	BSB-1, 25 ft.*	06/29/10	0.234	16.0	13.0	<10.0	<10.0	13	<100
Center									
excavation	BSB-1, 30 ft.	06/29/10	0.134	5.01	<10.0	<10.0	<10.0	<10.0	<100
Center									
excavation	BSB-1, 35 ft.	06/29/10	0.081	9.57	238	301	<10.0	539	1,290
Center									
excavation	BSB-1, 40 ft.	06/29/10	0.084	5.05	60.4	11.9	<10.0	72.3	332
S-side									
excavation	BSB-2, 10 ft.*	06/29/10	<0.050	7.21	33.5	28.3	<10.0	61.8	1,690
S-side	5050 45 6 #	00/00/40	0.050	4.00	4-0	40 =	40.0		
excavation	BSB-2, 15 ft.*	06/29/10	<0.050	4.32	47.6	10.7	<10.0	58.3	<100
S-side	DOD 0 00 (1 +	00/00/40	.0.050	0.704	40.0	40.0	40.0	40.0	400
excavation	BSB-2, 20 ft.*	06/29/10	<0.050	0.704	<10.0	<10.0	<10.0	<10.0	<100
S-side	DCD 0 05 # *	06/29/10	<0.050	<0.050	80.8	57.1	-400	138	255
excavation S-side	BSB-2, 25 ft.*	06/29/10	<0.050	<0.050	00.0	57.1	<10.0	130	255
excavation	BSB-2, 30 ft.	06/29/10	<0.050	1.66	41.0	56.2	<10.0	97.2	<100
S-side	D3D-2, 30 It.	00/29/10	~0.000	1.00	41.0	30.2	<u> </u>	91.2	100
excavation	BSB-2, 35 ft.	06/29/10	0.156	21.8	479	387	<10.0	866	1,470
S-side	DOD-2, 00 It.	00/23/10	0.130	21.0	413	307	~ 10.0	000	1,470
excavation	BSB-2, 40 ft.	06/29/10	0.235	17.3	180	124	<10.0	304	530
S-side	505 2, 40 it.	30/20/10	0.200	17.0	100	127	10.0	307	330
excavation	BSB-2, 42 ft.	06/29/10	<0.050	0.916	33.6	71.7	<10.0	105	163

Table Notes:

Bold – exceeds NMOCD guideline value for this facility as shown on the top of each table column.

^{*} Tank battery soil above 24 feet was subsequently excavated October/November 2010 and replaced with clean fill material

Soil Boring Analytical Results (mg/Kg) Exceeding OCD Guidelines, June-July 2010 Penasco Yard Investigation (continued)

Location:	Boring ID and Corrected Depth (feet below original land surface)	Sample Date	Benzene (<10 mg/Kg)	Total BTEX (<50/mg/Kg)	GRO (C6- C10) (mg/Kg)	DRO (>C10- C28) (mg/Kg)	MRO (>C28- C35) (mg/Kg)	TPH (8015) (<100 mg/Kg)	TPH (418.1) (<100 mg/Kg)
Tank Battery									
W-side									
excavation.	BSB-4, 10.5 ft.*	07/27/10	1.92	123	1,140	994	<10.0	2,134	3,240
W-side			_						
excavation.	BSB-4, 15.5 ft.*	07/27/10	3.84	148	445	743	<10.0	1,188	3,070
W-side									
excavation.	BSB-4, 20.5 ft.*	07/27/10	1.67	124	306	619	<10.0	925	2,870
W-side									
excavation.	BSB-4, 25.5 ft.*	07/27/10	4.24	100	440	351	<10.0	791	1,620
W-side									
excavation.	BSB-4, 30.5 ft.	07/27/10	2.71	132	608	570	<10.0	1,178	2,740
W-side									.
excavation.	BSB-4, 35.5 ft.	07/27/10	0.278	62.7	295	388	<10.0	683	1,430
W-side									
excavation.	BSB-4, 40.5 ft.	07/27/10	<0.100	<0.100	<10.0	<10.0	<10.0	<10.0	<100
W-side									
excavation.	BSB-4, 45.5 ft.	07/27/10	<0.100	<0.100	<10.0	<10.0	<10.0	<10.0	<100
							l.,		
N-side									
excavation.	BSB-5, 10.5 ft.*	07/27/10	<0.100	<0.100	<10.0	<10.0	N/A		580
N-side									
excavation.	BSB-5, 20.5 ft.*	07/27/10	<0.100	1.37	<10.0	<10.0	N/A		<100
N-side									ļ
excavation.	BSB-5, 25.5 ft.*	07/27/10	<0.100	1.96	<10.0	<10.0	N/A		<100
N-side									
excavation.	BSB-5, 30.5 ft.	07/27/10	<0.100	<0.100	<10.0	<10.0	N/A		<100

Table Notes:

Bold – exceeds NMOCD guideline value for this facility as shown on the top of each table column.

^{*} Tank battery soil above 24 feet was subsequently excavated October/November 2010 and replaced with clean fill material

Soil Boring Analytical Results (mg/Kg) Exceeding OCD Guidelines, June-July 2010 Penasco Yard Investigation (concluded)

Location:	Boring ID and Depth (feet below land surface)	Sample Date	Benzene (<10 mg/Kg)	Total BTEX (<50/mg/Kg)	GRO (C6- C10) (mg/Kg)	DRO (>C10- C28) (mg/Kg)	MRO (>C28- C35) (mg/Kg)	TPH (8015) (<100 mg/Kg)	TPH (418.1) (<100 mg/Kg)
Sump 2									
Center	S2SB-2, 20 ft.*	07/27/10	<0.100	<0.100	<10.0	<10.0	<10.0	<10.0	855
Center	S2SB-2, 25 ft.	07/27/10	<0.100	<0.100	<10.0	<10.0	<10.0	<10.0	182
Center	S2SB-2, 30 ft.	07/27/10	<0.100	<0.100	<10.0	55.2	<10.0	55.2	357
Center	S2SB-2, 40 ft.	07/27/10	<0.100	<0.100	<10.0	<10.0	<10.0	<10.0	<100
19.5' SW									
of center	S2SB-4, 10 ft.	07/28/10	<0.100	<0.100	<10.0	64.5	<10.0	64.5	937
19.5' SW									
of center	S2SB-4, 15 ft.	07/28/10	<0.100	<0.100	<10.0	<10.0	N/A		<100
19.5' SW									
of center	S2SB-4, 20 ft.	07/28/10	<0.100	<0.100	<10.0	<10.0	N/A		<100
19.5' SW									
of center	S2SB-4, 25 ft.	07/28/10	<0.100	<0.100	<10.0	<10.0	N/A		<100
19.5' SW						_			
of center	S2SB-4, 35 ft.	07/28/10	<0.100	<0.100	<10.0	<10.0	N/A		<100

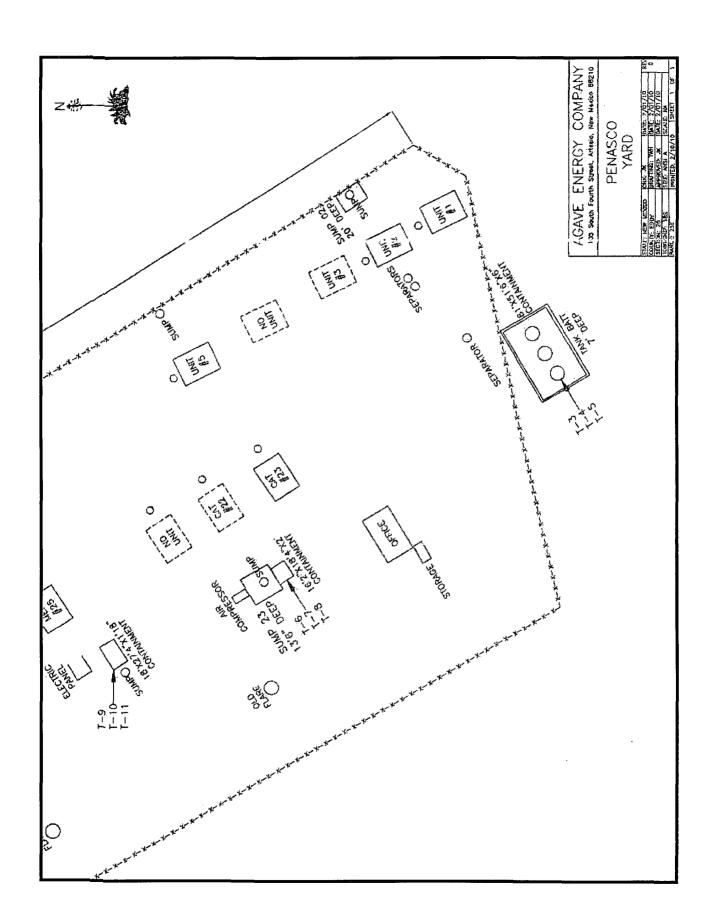
Table Notes:

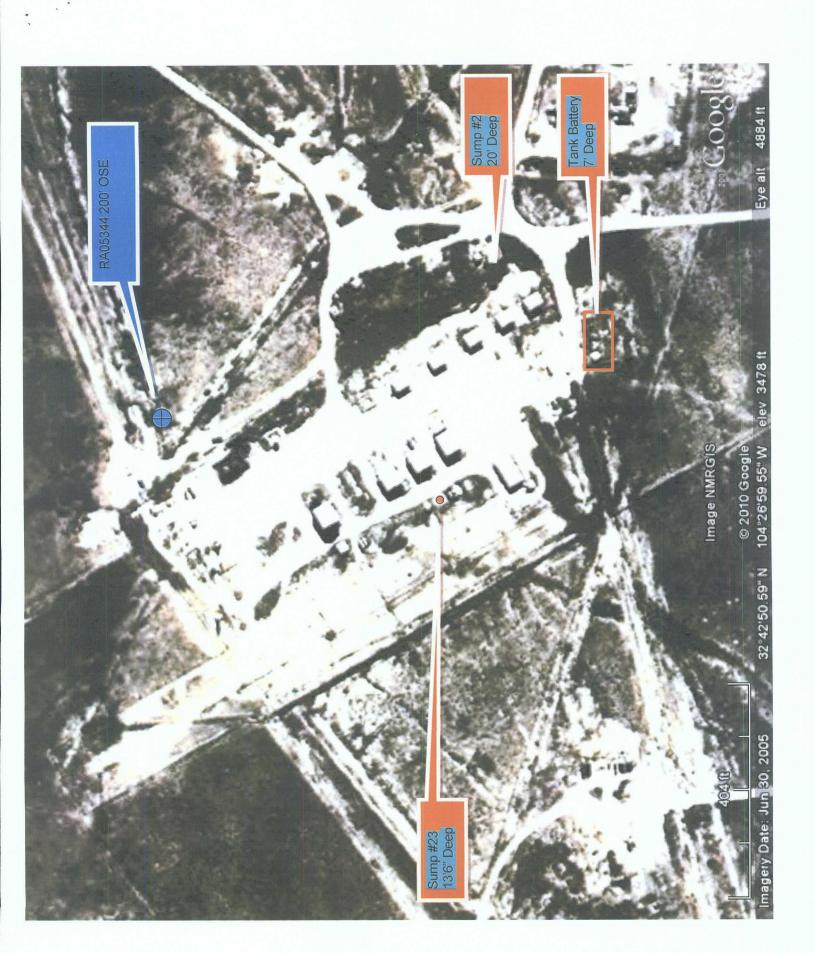
^{*} Center sump soil above 20 feet was previously excavated and replaced with clean fill material **Bold** – exceeds NMOCD guideline value for this facility as shown on the top of each table column.

Location:	Boring ID and Depth (feet below land surface)	Sample Date	Benzene (<10 mg/Kg)	Total BTEX (<50/mg/Kg)	GRO (C6- C10) (mg/Kg)	DRO (>C10- C28) (mg/Kg)	MRO (>C28- C35) (mg/Kg)	TPH (8015) (<100 mg/Kg)	TPH (418.1) (<100 mg/Kg)
Sump 23	<u></u>								
Center	S23SB-2, 15 ft.*	07/29/10	<0.100	4.93	36.2	47.5	<10.0	83.7	4,870
Center	S23SB-2, 20 ft.	07/29/10	<0.100	0.803	17.9	27.1	<10.0	45.0	9,040
Center	S23SB-2, 25 ft.	07/29/10	<0.100	1.40	15.5	20.9	<10.0	36.4	9,500
Center	S23SB-2, 40 ft.	07/29/10	<0.100	1.90	25.8	51.7	<10.0	77.5	9,450
	S23SB-2,								
Center	45.5 - 46.5 ft.	07/29/10	<0.100	<0.100	<10.0	<10.0	<10.0	<10.0	<100

Table Notes:

^{*} Center sump soil above 14 feet was previously excavated and replaced with clean fill material **Bold** – exceeds NMOCD guideline value for this facility as shown on the top of each table column.







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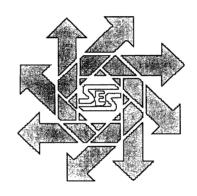
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Agave Energy Company

Closure Report Penasco Compressor Station

Section 26, Township 18S, Range 25E Eddy County, New Mexico

December 3, 2010



Prepared for:

Agave Energy 105 South 4th Street Artesia, New Mexico 88210

Prepared by:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240

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I. Contacts

Representative	Company	Telephone	E-mail
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Bob Allen	SESI	(575) 397-0510	ballen@sesi-nm.com

II. Background

Safety & Environmental Solutions, Inc. (SESI) was contracted by Agave Energy Company to propose a workplan for the investigation and remediation of three areas located within the Penasco Compressor Station yard south of Artesia, New Mexico. The site is located in E/2 SE/4 of Section 26, Township 18 South, Range 25 East, Eddy County, New Mexico (Figure 1).

Two areas originally contained sumps that were removed and contamination was found in the soil beneath the sumps. The third area originally contained above ground tanks and contamination was found after the tanks were removed. The locations of the areas investigated are shown in Figures 2 (site plan) and 3 (aerial photograph).

After sumps #2 and #23 were removed the most highly contaminated soils were removed to a depth of 20' and 13' respectively. On February 10, 2010 and February 12, 2010, the bottoms and sidewalls of the existing excavations were sampled and found to still contain hydrocarbons (TPH) in concentrations ranging from 7,000 ppm to 12,600 ppm in sump #23, and from 711 ppm to 1,460 ppm in sump #2. BTEX analysis of these samples showed no benzene and small amounts of toluene, ethyl-benzene and xylenes*. Vertical and horizontal extents of contamination had not yet been determined in either excavation. Chloride concentrations in these samples are less than 50 ppm.

Following earlier removal of the tanks, the bermed tank battery area was sampled on December 10, 2009 and found to also contain hydrocarbons (TPH) in concentrations ranging from 593 ppm to 881 ppm with small amounts of BTEX. The vertical and horizontal extent of contamination had not yet been determined to date. Chloride concentrations in these samples are less than 120 ppm.

A soil boring investigation was conducted in June and July 2010 to determine horizontal and vertical extent of contamination at three locations at the Agave Penasco yard. At each location borings were advanced to either auger refusal or until hydrocarbon impacted material was no longer encountered. Boring locations are shown in Figures 4, 5 and 6. Borings outside the center of each excavation were advanced to determine if horizontal migration had occurred. Samples were collected from auger splitspoons for laboratory analysis of benzene, toluene, ethylbenzene and total xylene volatiles (BTEX), gasoline and diesel range organics (GRO and DRO, EPA method 8015B) and Total Petroleum Hydrocarbons (EPA method 418.1). Sampling results and analyses were previously reported and presented to Agave in a "Report of Investigation" dated October 8, 2010. The table showing the results is provided in Appendix A of the current report.

Results of the review were compared with NM Oil Conservation Division "Guidelines for Remediation of Leaks, Spills and Releases" (1993) to determine the relative threat to public health, fresh waters and the environment, and to provide guidance for remediation. The OCD uses a ranking system with depth to groundwater, wellhead

^{*} Agave Energy Company, "Report of Investigation, Penasco Compressor Station" October 8, 2010.

protection area and distance to a surface water body to determine possible remediation scenarios.

Depth to groundwater at the site was determined from state engineer records. 32 water wells were found within a five mile radius of the Penasco yard. Depth to water averages 134 feet with values ranging from 42 feet to 270 feet. Depth to water for the five wells closest to the Peñasco yard averages 182 feet. The closest private well is used by Agave and its distance is 285 feet from the location of sump 2. The depth to water in that well was reported as 200 feet. The distance to the nearest surface water body (ephemeral Peñasco Draw) is approximately 1,560 feet.

Comparing values of depth to water, wellhead protection area and distance to a surface water body with the ranking criteria results in a ranking score of 20 and establishes recommended remediation levels of benzene at 10 ppm (mg/Kg), total BTEX of 50 ppm and TPH of 100 ppm.

Based on the above ranking criteria, four of the soil borings from the tank battery location, two borings from the sump 2 location and one boring from sump 23 exceed the ranking criteria in one or more samples from each boring (Table, Appendix A).

Of those, only two borings from the tank battery (center excavation, BSB-1, 40 feet; and southside excavation, BSB-2, 42 feet) exceeded the 100 mg/Kg standard at boring total depth. At those depths, minimal levels of benzene, total BTEX and TPH remain in these two boreholes. Auger refusal in boulders and cobbles prevented further sampling below 40-42 feet from the surface.

Vertical extent of contamination was established in all other borings other than those two shown above.

The October 8 investigation report included recommendations for removal of highly contaminated soil in the tank battery area and passive wind ventilation turbine for remediation of soil exceeding guidance standards but not able to be excavated

III. Removal of Highly Contaminated Soil

When contaminated soils exceed OCD guidelines ("Guidelines for Remediation of Leaks, Spills and Releases") and require remediation, the following methods are described in the guidance:

Highly contaminated/saturated soils and unsaturated contaminated soils exceeding the standards described in Section IV.A should be either:

- a) Excavated from the ground until a representative sample from the walls and bottom of the excavation is below the contaminant specific remediation level listed in Section IV.A.2.b or an alternate approved remediation level, or;
- b) Excavated to the maximum depth and horizontal extent practicable. Upon reaching this limit a sample should be taken from the walls and bottom of the excavation to determine the remaining levels of soil contaminants, or;
- c) Treated in place, as described in Section VI.A.2.b.ii. Treatment of Soil in Place, until a representative sample is below the contaminant specific remediation level listed in Section IV.A.2.b, or an alternate approved remediation level, or;
- d) Managed according to an approved alternate method.

Highly contaminated soil had previously been removed to a depth of 20 and 13 feet at Sump 2 and Sump 23, respectively, which was the maximum practical depth at these locations, and to between 5 and 7 feet at the Tank Battery. Based on the results of the soil borings, additional excavation was a practical remedy for the former Tank Battery location.

On Monday, October 25, 2010, Safety and Environmental Solutions, Inc. (SESI) and Watson Construction were onsite to begin excavation at the tank battery area. Excavated soils were stockpiled on site for subsequent transfer to Jay-Dan Land Farm, an OCD approved disposal facility. Returning trucks contained clean caliche for later backfill of the excavation.

Excavation continued daily through Friday, October 29. Transport of materials for disposal, and stockpiling of clean caliche backfill on site continued through Wednesday, November 3. Approximately 3,300 yards of contaminated soils were transported to the approved disposal facility.

In addition several hundred yards of unsaturated, non-stained material were removed from the excavation and stockpiled on site for later return to the excavation. This material was tested on October 26 with results of the analysis shown below. This material was directed to be blended with the caliche before placement in the excavation.

The location was excavated to a depth of twenty-four (24) feet below grade surface and the surface area was approximately 80 feet by 60 feet for a total volume of 4,267 cubic yards. Approximately five (5) feet (889 cubic yards) had been previously removed leaving a difference of about 3,378 cubic yards. Therefore the estimated yards excavated and stockpiled or removed for disposal are close to the calculated volume.

SESI was onsite on November 5 to obtain samples from excavated area bottom and side walls. A three-point composite sample was obtained from each side wall and a five-point sample was obtained from the bottom floor of excavation. Samples were then transported to Cardinal Laboratories in Hobbs, NM under Chain-of-Custody to be analyzed for Total Petroleum Hydrocarbons (TPH EPA Method 418.1 and TPH EPA Method 8015) and Benzene, Toluene, Ethyl Benzene, and Total Xylene (BTEX EPA Method 8021B).

The results of the sample analyses are as follows:

Soil Sample ID	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	Method 418.1 TPH (mg/Kg)
Non-stained								
stockpile	<0.100	0.100	<0.100	<0.100	<0.100	<10.0	25.1	110
Bottom								
(24'bgs)	<0.050	0.181	<0.050	<0.150	0.181	<10.0	89.4	170
West Wall	<0.050	0.054	<0.050	<0.150	0.054	<10.0	<10.0	<10.0
East Wall	<0.050	0.117	<0.050	<0.150	0.117	<10.0	<10.0	12.0
North Wall	<0.050	0.070	<0.050	<0.150	0.070	<10.0	22.9	100
South Wall	<0.050	0.155	<0.050	<0.050	0.155	<10.0	<10.0	10.0

NMOCD approved backfill of the excavation on November 4, 2010. SESI and Watson Construction began backfilling with clean caliche from an offsite location on November 10, 2010. Backfill continued on November 11-12. Approximately 3,536 cubic yards of caliche plus the non-stained stockpiled material were used as backfill. The location area was then contoured to its natural earth form.

IV. Recommendations

With the completion of the excavation of the highly contaminated soil material, the following recommendations from the October 8 report remain:

- 1. Provided that air quality issues and/or permitting are not a restrictive consideration, installation of a grid of passive wind ventilation turbines is recommended with a grid pattern defined by battery soil boring locations BSB-1, BSB-2, BSB-4 and the sides of the existing excavation.
- 2. Installation of a passive wind ventilation turbine is recommended at the center of sump 2 and the center of sump 23 provided that air quality issues and/or permitting are not a restrictive consideration.

Not recommended is the installation of a protective cover liner when only hydrocarbons are present. Unlike chlorides, these can be remediated with active or passive remediation methods and do not require long term isolation to prevent migration.

V. Figures & Appendices

Figure 1- Vicinity Map

Figure 2- Site Plan

Figure 3- Aerial Photograph of Penasco Yard

Figure 4- Location of Tank Battery Soil Borings

Figure 5- Location of Sump 2 Soil Borings

Figure 6- Location of Sump 23 Soil Borings

Appendix A- Soil Boring Analytical Results, June-July 2010, Agave Penasco Yard Investigation

Appendix B- Site Photographs

Appendix C- Copy of Laboratory Analytical Results

Figure 1- Vicinity Map

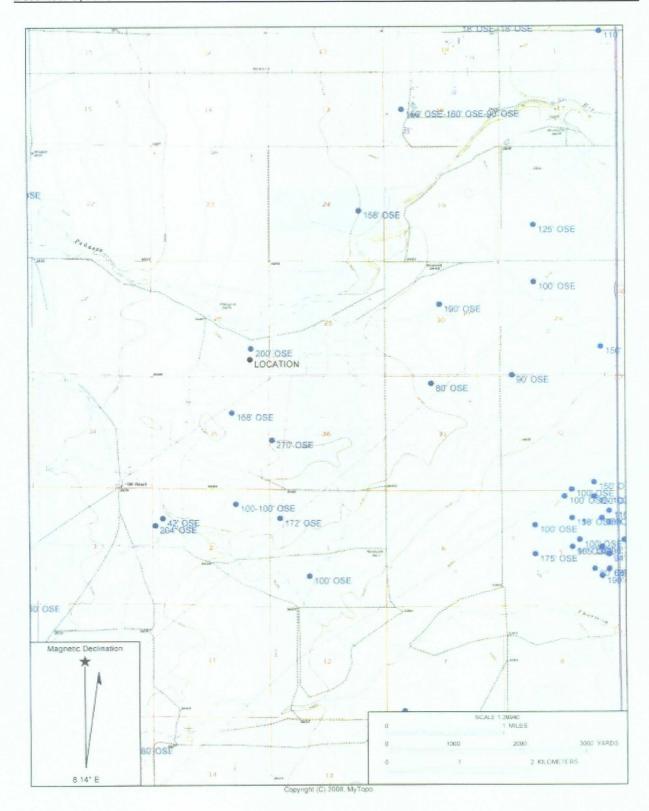


Figure 2- Site Plan

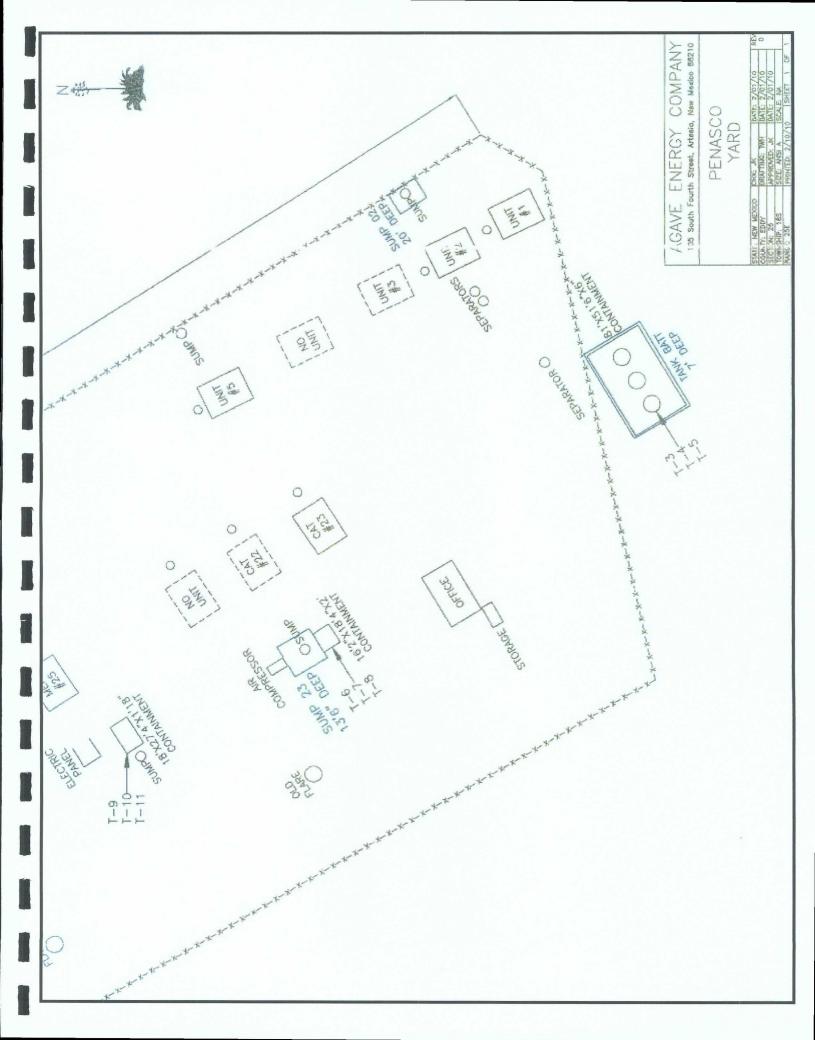


Figure 3- Aerial Photograph of Penasco Yard

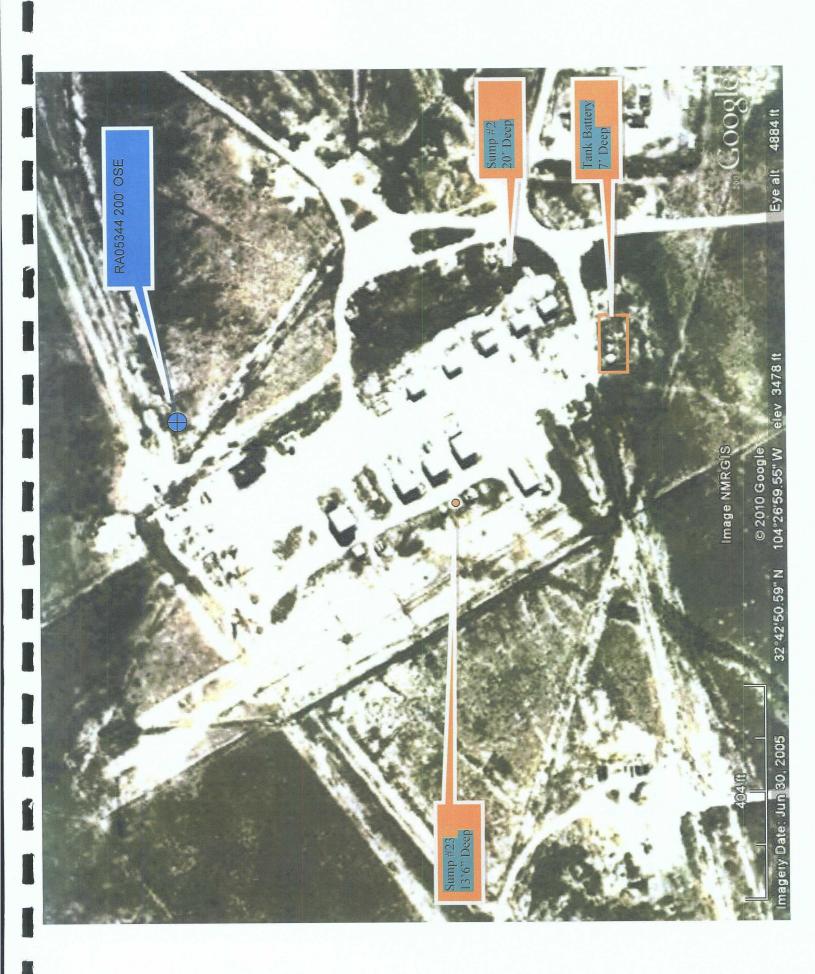


Figure 4- Location of Tank Battery Soil Borings

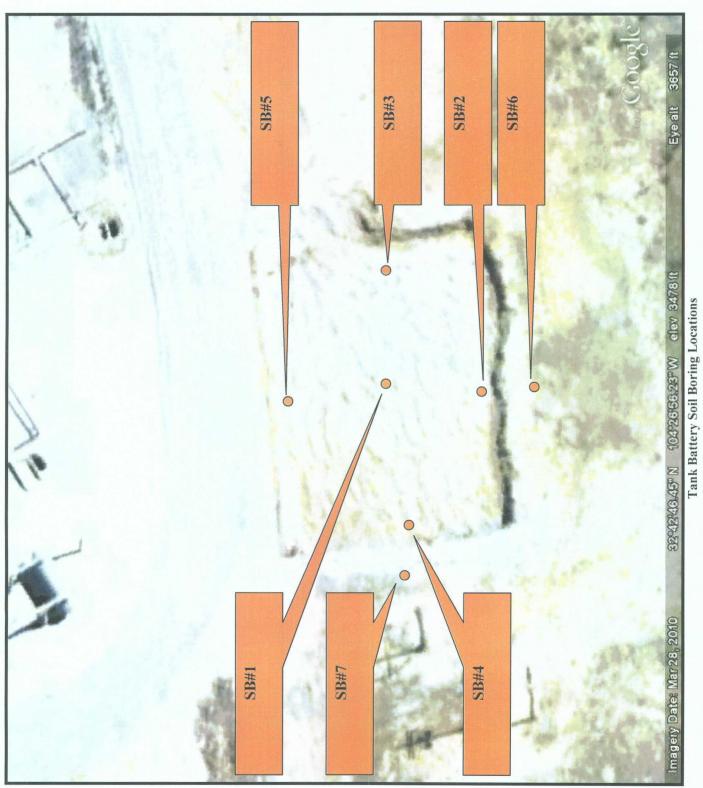
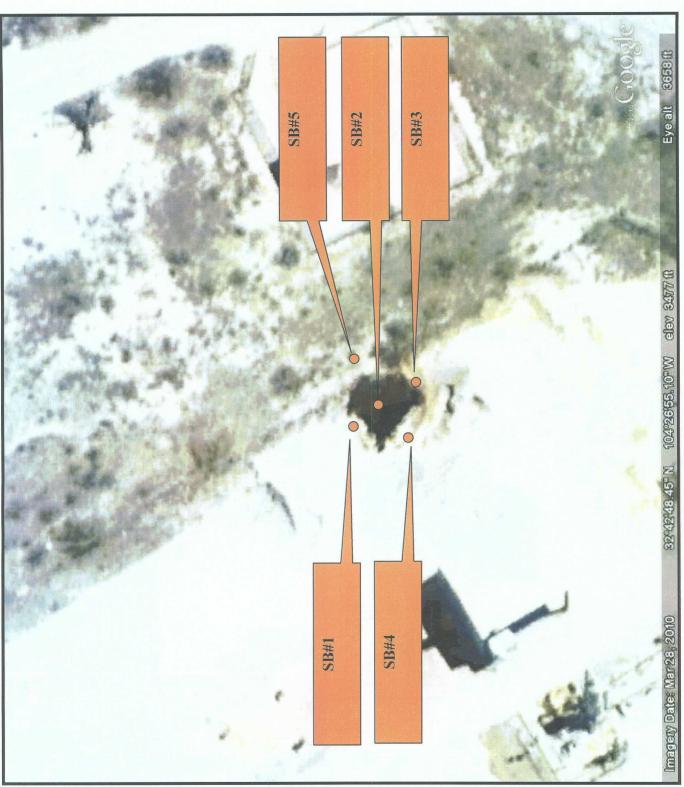
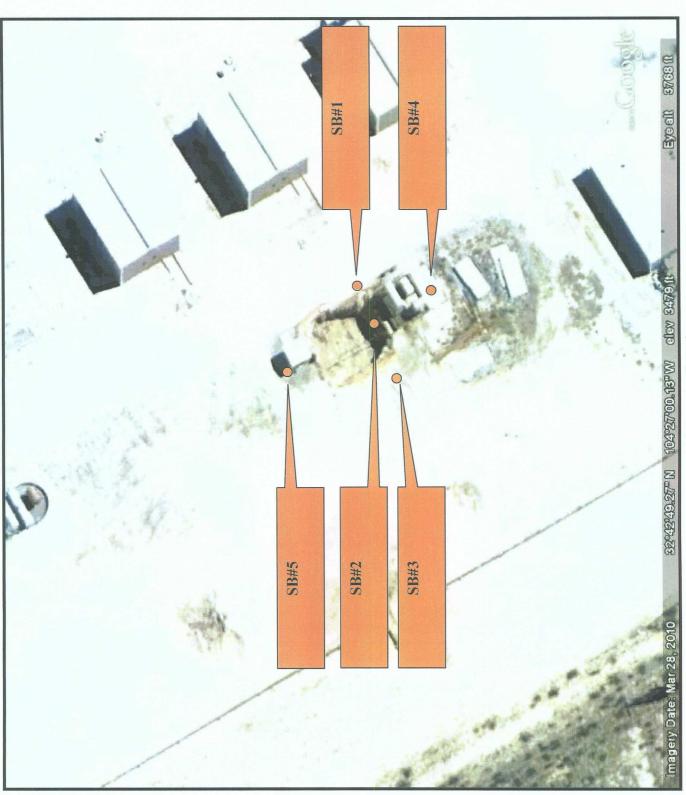


Figure 5- Location of Sump 2 Soil Borings



Sump 2 Soil Boring Locations

Figure 6- Location of Sump 23 Soil Borings



Sump 23 Soil Boring Locations

Appendix A- Soil Boring Analytical Results, June-July 2010, Agave Penasco Yard Investigation

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Penasco Compressor Station/Closure Report December 3, 2010

BSB-1, 10 ft.* 06/29/10 c.0.550 c.0.55		Boring ID and Corrected Depth (feet below land	Sample	Benzene (<10	Toluene (ma/Ka)	Ethyl Benzene	Total Xylenes	Total BTEX	GRO (C6-C10)	DRO (>C10- C28)	TPH (418.1) (<100 ma/Ka)
BSB-1, 10ft* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0				66	(6)	(GG)	(66)	6	6	6	
BSB-1, 15 ft.* 06/29/10 1.68 5.02 24.2 87.2 118 1420 1420 1.68 5.02 24.2 87.2 118 1420 1420 1.68 5.02 24.2 87.2 118 1420 1420 1.68 5.02 24.2 87.2 118 1420 1420 1.68 1.06/29/10 0.234 0.667 3.21 11.9 16.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	ion	BSB-1, 10 ft.*	06/29/10	<0.050	<0.050	<0.050	<0.300	<0.050	13.3	104	1,580
BSB-1, 20 ft.* 06/29/10 1.68 5.02 24.2 87.2 118 1,420 1,420 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614 1,614	ion	BSB-1, 15 ft.*	06/29/10	<0.050	<0.050	5.61	17.5	23.1	305	424	1,500
BSB-1, 25 ft.* 06/29/10 0.234 0.667 3.21 11.9 16.0 13.0 BSB-1, 30 ft.* 06/29/10 0.134 0.132 1.05 3.69 5.01 <10.0 BSB-1, 30 ft.* 06/29/10 0.084 0.071 1.76 7.66 9.57 2.38 BSB-1, 40 ft.* 06/29/10 0.084 <0.050 0.964 4.00 5.05 60.4 BSB-2, 10 ft.* 06/29/10 0.084 <0.050 0.845 6.36 7.21 33.5 BSB-2, 10 ft.* 06/29/10 <0.050 <0.050 0.066 3.66 4.32 47.0 BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 0.106 0.598 0.704 <10.0 BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 BSB-2, 35 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 BSB-2, 40 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 BSB-2, 40 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 BSB-2, 42 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.05	ion	BSB-1, 20 ft.*	06/29/10	1.68	5.02	24.2	87.2	118	1,420	1,240	7,030
BSB-1, 30 ft.* 06/29/10 0.084 0.071 1.76 3.69 5.01 < 10.0 BSB-1, 40 ft.* 06/29/10 0.084 < 0.050 0.964 4.00 5.05 60.4 BSB-1, 40 ft.* 06/29/10 0.084 < 0.050 0.964 4.00 5.05 60.4 BSB-2, 10 ft.* 06/29/10 < 0.050 < 0.050 0.845 6.36 7.21 33.5 BSB-2, 10 ft.* 06/29/10 < 0.050 < 0.050 0.066 3.66 4.32 47.6 BSB-2, 20 ft.* 06/29/10 < 0.050 < 0.050 0.106 0.368 0.704 < 41.0 BSB-2, 20 ft.* 06/29/10 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 BSB-2, 30 ft.* 06/29/10 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 BSB-2, 30 ft.* 06/29/10 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.0	ion	BSB-1, 25 ft.*	06/29/10	0.234	0.667	3.21	11.9	16.0	13.0	<10.0	<100
to lab sample ID depth to account for depth of excavation. BSB-2, 10 ft.* 06/29/10 0.084 <0.050 0.964 4.00 5.05 60.4 BSB-2, 10 ft.* 06/29/10 0.084 <0.050 0.964 4.00 5.05 60.4 BSB-2, 10 ft.* 06/29/10 <0.050 <0.050 0.845 6.36 7.21 33.5 BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 0.066 3.66 4.32 47.6 BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	Center excavation	BSB-1, 30 ft.*	06/29/10	0.134	0.132	1.05	3.69	5.01	<10.0	<10.0	<100
PSB-1, 40 ft.* 06/29/10 0.084 <0.050 0.964 4.00 5.05 60.4 Lo lab sample ID depth to account for depth of excavation. BSB-2, 10 ft.* 06/29/10 <0.050 <0.050 0.845 6.36 7.21 33.5 BSB-2, 10 ft.* 06/29/10 <0.050 <0.050 0.066 3.66 4.32 47.6 BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 0.066 0.058 0.704 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	Center excavation	BSB-1, 35 ft.*	06/29/10	0.081	0.071	1.76	7.66	9.57	238	301	1,290
BSB-2, 10 ft.* 06/29/10 <0.050 0.845 6.36 7.21 33.5 BSB-2, 10 ft.* 06/29/10 <0.050 <0.050 0.066 3.66 4.32 47.6 BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 0.106 0.598 0.704 <10.0 BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <10.0 BSB-2, 25 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <10.0 BSB-2, 30 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 BSB-2, 35 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0	Center excavation	BSB-1, 40 ft.*	06/29/10	0.084	<0.050	0.964	4.00	5.05	60.4	11.9	332
BSB-2, 10 ft.* 06/29/10 <0.050 <0.050 0.845 6.36 7.21 33.5 BSB-2, 15 ft.* 06/29/10 <0.050	led to lab sar	mple ID depth to acc	sount for dep	th of excava	tion.						
BSB-2, 15 ft.* 06/29/10 < 0.050 < 0.050 0.066 3.66 4.32 47.6 BSB-2, 20 ft.* 06/29/10 < 0.050	tion	BSB-2 10 ft *	06/29/10	<0.050	<0.050	0.845	6.36	7.21	33.5	28.3	1,690
BSB-2, 20 ft.* 06/29/10 <0.050 <0.050 0.0598 0.704 <10.0 BSB-2, 25 ft.* 06/29/10 <0.050	tion	BSB-2, 15 ft.*	06/29/10	<0.050	<0.050	99.0	3.66	4.32	47.6	10.7	<100
BSB-2, 25 ft.* 06/29/10 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <	tion	BSB-2, 20 ft.*	06/29/10	<0.050	<0.050	0.106	0.598	0.704	<10.0	<10.0	<100
BSB-2, 30 ft.* 06/29/10 <0.050 0.104 0.201 1.35 1.66 41.0 BSB-2, 35 ft.* 06/29/10 0.156 0.326 2.30 19.0 21.8 479 BSB-2, 40 ft.* 06/29/10 0.156 0.758 2.17 14.1 17.3 180 BSB-2, 40 ft.* 06/29/10 <0.050	tion	BSB-2, 25 ft.*	06/29/10	<0.050	<0.050	<0.050	<0.300	<0.050	80.8	57.1	255
BSB-2, 35 ft.* 06/29/10 0.156 0.326 2.30 19.0 21.8 479 BSB-2, 40 ft.* 06/29/10 0.235 0.758 2.17 14.1 17.3 180 BSB-2, 42 ft.* 06/29/10 <0.050	tion	BSB-2, 30 ft.*	06/29/10	<0.050	0.104	0.201	1.35	1.66	41.0	56.2	<100
to lab sample ID depth to account for depth of excavation 60/29/10 6.056 6.056 6.128 14.1 17.3 180 to lab sample ID depth to account for depth of excavation ESB-3, 42 ft.* 06/29/10 <0.050	tion	BSB-2, 35 ft.*	06/29/10	0.156	0.326	2.30	19.0	21.8	479	387	1,470
to lab sample ID depth to account for depth of excavation. BSB-3, 3-8 ft. 07/26/10 < 0.100 < 0.100 < 0.100 < 0.300 < 0.100 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 < 10.00 <	tion	BSB-2, 40 ft.*	06/29/10	0.235	0.758	2.17	14.1	17.3	180	124	530
to lab sample ID depth to account for depth of excavation. BSB-3, 3-8 ft. 07/26/10 <0.100 <0.100 <0.100 <0.300 <0.100 <10.0 BSB-3, 13 ft. 07/26/10 <0.100 <0.100 <0.100 <0.300 <0.100 <10.0 BSB-3, 18 ft. 07/26/10 <0.100 <0.100 <0.100 <0.300 <0.100 <10.0 BSB-3, 23 ft. 07/26/10 <0.100 <0.100 <0.100 <0.300 <0.100 <10.0 BSB-3, 28 ft. 07/26/10 <0.100 <0.100 <0.100 <0.100 <0.100 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <	tion	BSB-2, 42 ft.*	06/29/10	<0.050	<0.050	0.128	0.788	0.916	33.6	71.7	163
BSB-3, 3-8 ft. 07/26/10 < 0.100 < 0.100 < 0.300 < 0.100 < 10.0 BSB-3, 13 ft. 07/26/10 < 0.100		mple ID depth to acc	count for dep	th of excava	ition.						
BSB-3, 13 ft. 07/26/10 <0.100 <0.100 <0.300 <0.100 <10.0 BSB-3, 18 ft. 07/26/10 <0.100	tion	BSB-3, 3-8 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
BSB-3, 18 ft. 07/26/10 <0.100 <0.100 <0.100 <0.100 <10.0 BSB-3, 23 ft. 07/26/10 <0.100	E-side excavation	BSB-3, 13 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
BSB-3, 23 ft. 07/26/10 <0.100 <0.100 <0.100 <0.100 <0.100 <10.00 BSB-3, 28 ft. 07/26/10 <0.100	tion	BSB-3, 18 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
BSB-3, 28 ft. 07/26/10 <0.100 <0.100 <0.100 <0.100 <0.100 <10.0 BSB-3, 33 ft. 07/26/10 <0.100	tion	BSB-3, 23 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
BSB-3, 33 ft. 07/26/10 <0.100 <0.100 <0.100 <0.300 <0.100 <10.0	tion	BSB-3, 28 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
	tion	BSB-3, 33 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100

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Penasco Compressor Station/Closure Report December 3, 2010

	Boring ID and Corrected								DRO	ТРН
Location	Depth (feet below land	Sample	Benzene (<10 ma/Ka)	Toluene (ma/Ka)	Ethyl Benzene (mg/Kg)	Total Xylenes (ma/Ka)	Total BTEX (<50/mg/Kα)	GRO (C6-C10) (ma/Ka)	(>C10- C28) (ma/Ka)	(418.1) (<100 ma/Ka)
Tank Battery (continued)			66	(6: .6)	(6, .6)	(G G)	66	(66)	(G (G)	66
W-side excavation	BSB-4, 10.5 ft.	07/27/10	1.92	31.6	20.0	6.69	123	1,140	994	3,240
W-side excavation	BSB-4, 15.5 ft.	07/27/10	3.84	39.8	23.5	80.9	148	445	743	3,070
W-side excavation	BSB-4, 20.5 ft.	07/27/10	1.67	28.0	16.6	77.9	124	306	619	2,870
W-side excavation	BSB-4, 25.5 ft.	07/27/10	4.24	9.87	16.5	0.69	100	440	351	1,620
W-side excavation	BSB-4, 30.5 ft.	07/27/10	2.71	24.9	19.9	84.4	132	809	570	2,740
W-side excavation	BSB-4, 35.5 ft.	07/27/10	0.278	7.05	7.40	48.0	62.7	295	388	1,430
W-side excavation	BSB-4, 40.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
W-side excavation	BSB-4, 45.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
N-side excavation	BSB-5, 10.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	580
N-side excavation	BSB-5, 20.5 ft.	07/27/10	<0.100	<0.100	0.258	1.11	1.37	<10.0	<10.0	<100
N-side excavation	BSB-5, 25.5 ft.	07/27/10	<0.100	<0.100	<0.100	1.96	1.96	<10.0	<10.0	<100
N-side excavation	BSB-5, 30.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
		200								
20' S. of excavation	BSB-6, 10 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 15 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 20 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 25 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 30 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 10 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 15 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	11.1	<100
20' W. of excavation	BSB-7, 20 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 33 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 35 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 40 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 45 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100

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Penasco Compressor Station/Closure Report December 3, 2010

Location	Boring ID and Corrected Depth (feet below land surface)	Sample Date	Benzene (<10 mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (<50/mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10- C28) (mg/Kg)	TPH (418.1) (<100 mg/Kg)
Sump 2										
21' NW. of center S2	S2SB-1, 5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 10 ft.	07/27/10	<0.100	<0.100	<0.100	0.255	0.255	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 20 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 25 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 30 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 35 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 40 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
Center sump 2	S2SB-2, 20 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	855
Center sump 2	S2SB-2, 25 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	182
Center sump 2	S2SB-2, 30 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	55.2	357
Center sump 2	S2SB-2, 40 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SE. of center S2	S2SB-3, 10 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SE. of center S2	S2SB-3, 15 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SE. of center S2	S2SB-3, 20 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SE. of center S2	S2SB-3, 32 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SW. of center S2	S2SB-4, 10 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	64.5	937
19.5' SW. of center S2	S2SB-4, 15 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SW. of center S2	S2SB-4, 20 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SW. of center S2	S2SB-4, 25 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
19.5' SW. of center S2	S2SB-4, 35 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100

Agave Energy Company Eddy County, New Mexico

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Penasco Compressor Station/Closure Report December 3, 2010

	Boring ID and Corrected Depth (feet below land	Sample	Benzene (<10	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	GRO (C6-C10)	DRO (>C10- C28)	TPH (418.1) (<100
Sump 2 (continued)	surface)	Dale	(By/Bii	(mg/ng)	(Bu/Sul)	(IIIg/Ng)	(By/Biji/nes)	(By/BII)	(By/Bii)	(BA/BI)
18' NE. of center S2	S2SB-5, 5 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
18' NE. of center S2	S2SB-5, 10 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
18' NE. of center S2	S2SB-5, 15 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
18' NE. of center S2	S2SB-5, 20 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
18' NE. of center S2	S2SB-5, 30 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
18' NE. of center S2	S2SB-5, 34 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
Sump 23										
20' NE. of center S23	S23SB-1,15 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' NE. of center S23	S23SB-1,20 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' NE. of center S23	S23SB-1,25 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' NE. of center S23	S23SB-1,30 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.01>	<100
20' NE. of center S23	S23SB-1,40 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.01>	<100
20' NE. of center S23	S23SB-1,45 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
Center sump 23	S23SB-2, 15 ft.	07/29/10	<0.100	0.683	0.572	3.67	4.93	36.2	47.5	4,870
Center sump 23	S23SB-2, 20 ft.	07/29/10	<0.100	0.101	0.105	0.597	0.803	17.9	27.1	9,040
Center sump 23	S23SB-2, 25 ft.	07/29/10	<0.100	0.247	0.18	0.968	1.40	15.5	20.9	9,500
Center sump 23	S23SB-2, 40 ft.	07/29/10	<0.100	0.27	0.217	1.41	1.90	25.8	51.7	9,450
Center sump 23	S23SB-2, 45.5 - 46.5 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
										- Control
24' SW. of center S23	S23SB-3, 10 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23	S23SB-3, 15 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23	S23SB-3, 20 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23	S23SB-3, 25 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23	S23SB-3, 30 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100

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Penasco Compressor Station/Closure Report <u>December 3, 2010</u>

	Boring ID and Corrected Depth	Sample	Benzene (<10	Toluene	Ethyl Benzene	Total Xvlenes	Total BTEX	GRO (C6-C10)	DRO (>C10- C28)	TPH (418.1) (<100
Location	surface)	Date	mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(<50/mg/Kg)	(mg/Kg)	(mg/Kg)	mg/Kg)
Sump 23 (continued)										
41' NW. of center S23	S23SB-4, 10 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 15 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 20 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 25 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 30 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 35 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 40 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 44 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
				0440						
40' SE. of center S23	S23SB-5, 15 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
40' SE. of center S23	S23SB-5, 20 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
40' SE. of center S23	S23SB-5, 25 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
Table Note:										

Table Note: **Bold** – exceeds NMOCD guideline value for this facility as shown on the top of each table column.

Appendix B- Site Photographs

Site photos 10-25-10



Excavated soils facing west



Highly stained soils stockpiled facing west



Non stained soils stockpiled southeast corner of excavation



Northwest corner wall facing northwest



West wall facing west

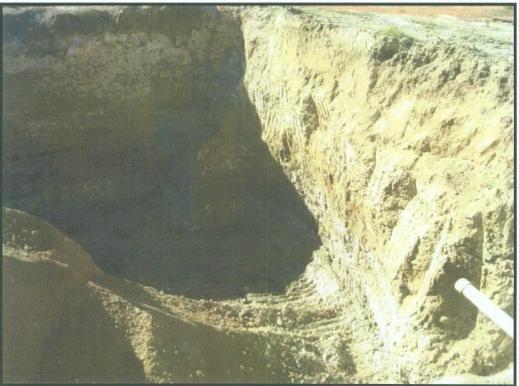


Southwest corner wall facing southwest

Site Photos 10-27-10



Bottom hole facing east



Southwest corner facing southwest



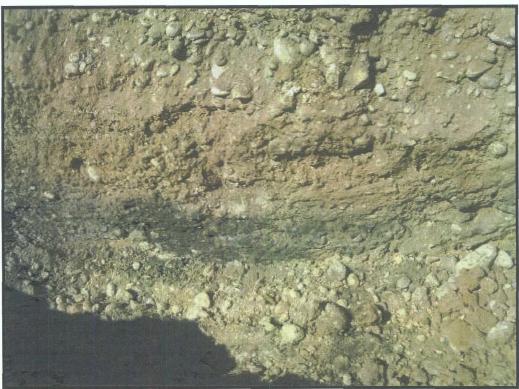
West wall facing southwest



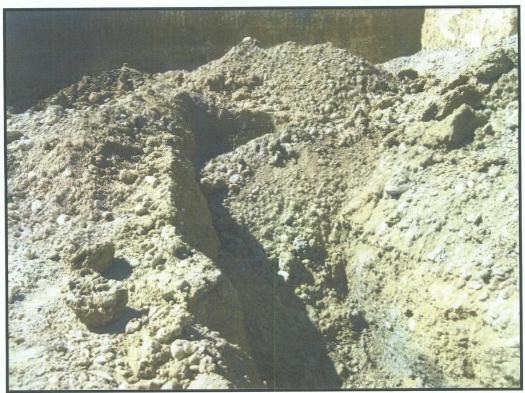
East section facing east



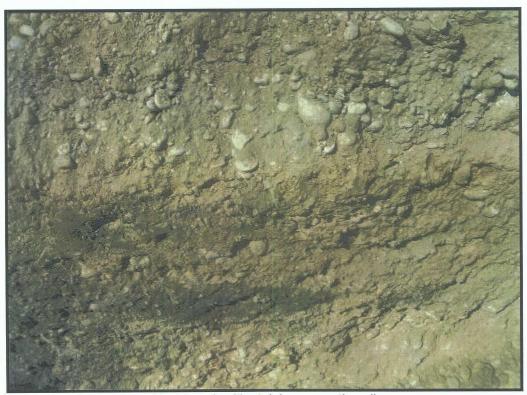
Trench with staining 30' from desire stop point facing east



Test trench north wall



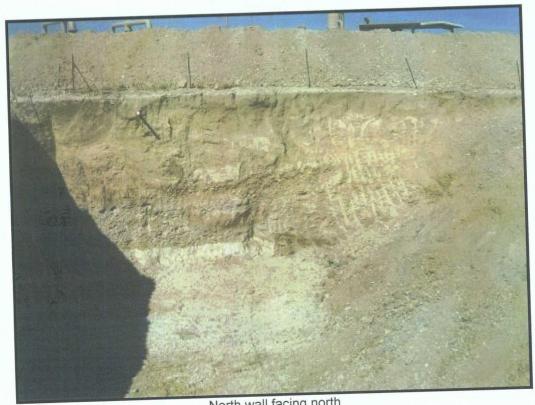
Test trench facing west



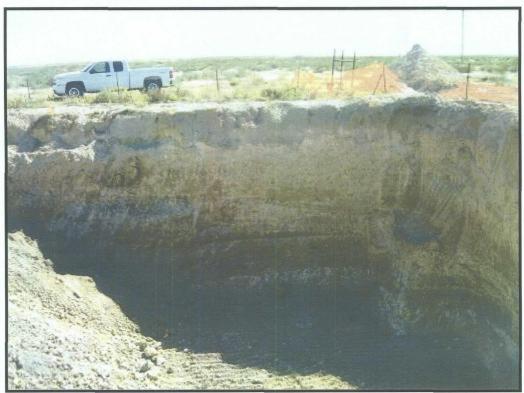
Test trench with staining on north wall



Desire stopping point with test trench facing east



North wall facing north



South wall facing south



West wall facing southwest

Agave Penasco Yard Site Photos 10-28-10



Excavated area facing east



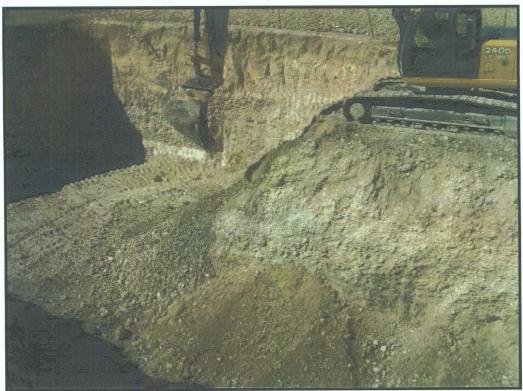
Excavated area facing northeast



South side excavation bottom facing west



Excavated area facing southwest



Excavated area facing north

Agave Site Photos 10-29-10



Excavated area facing east



Excavated area facing southeast



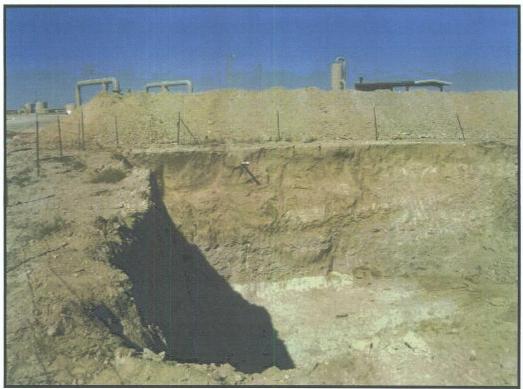
Excavated area facing south



Excavated area bottom floor



Excavated area facing southwest



Excavated area facing north



Excavated area facing northeast

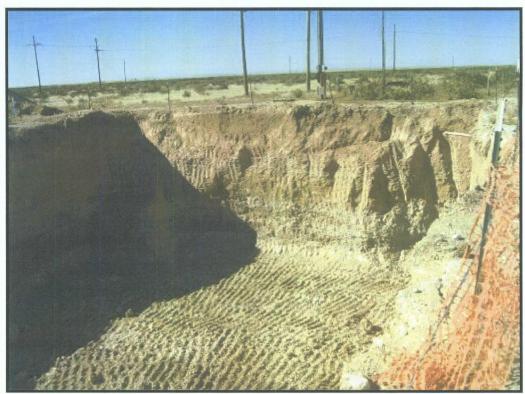
Site photos 11-5-10



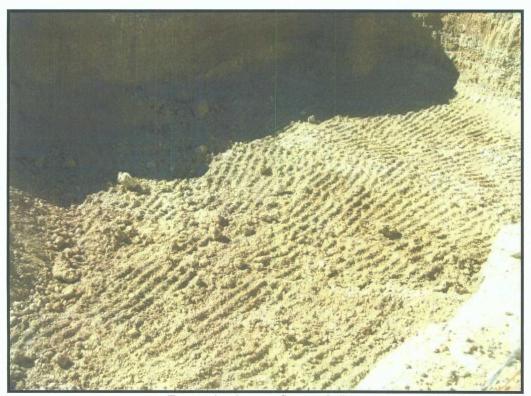
Excavation east side bottom facing south



Excavation south wall facing southwest



Excavation west wall facing west



Excavation bottom floor at 24'bgs

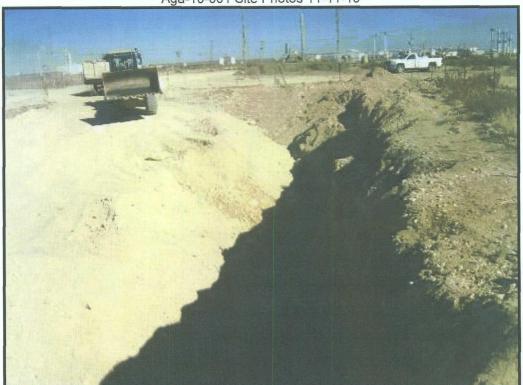


Excavation area facing west

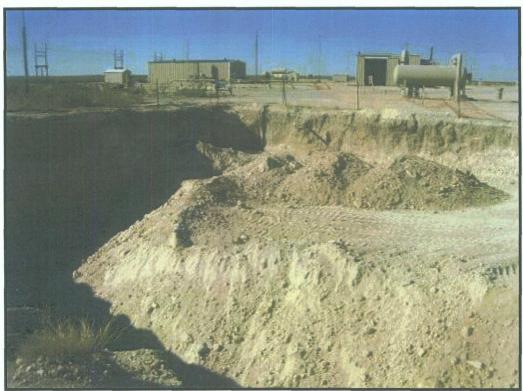


Excavation north wall facing north

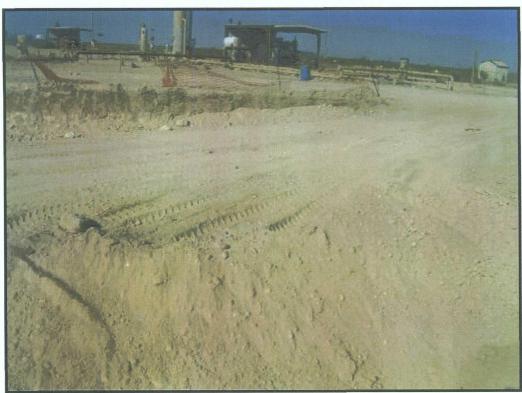
Aga-10-001 Site Photos 11-11-10



Excavated area backfilled facing east



Excavated area backfilled facing north



Excavated area backfilled facing north

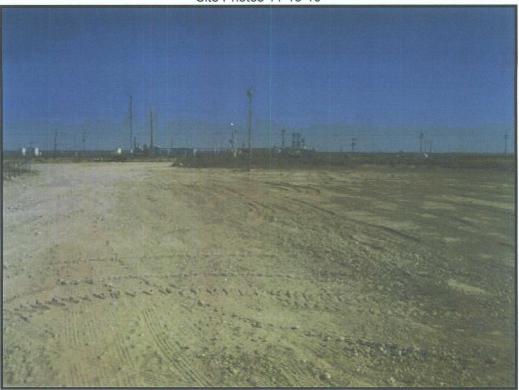


Excavated area backfilled facing west



Excavated area backfilled facing northwest

Site Photos 11-16-10



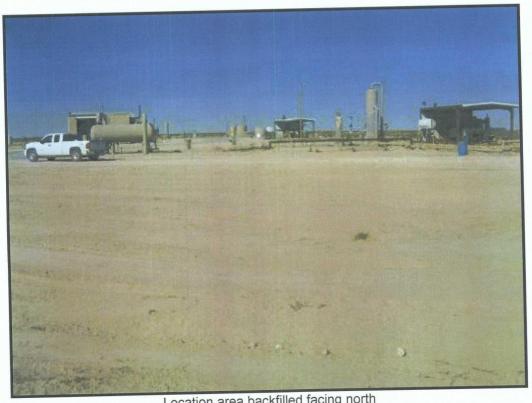
Location area backfilled facing east



Location area backfilled facing east



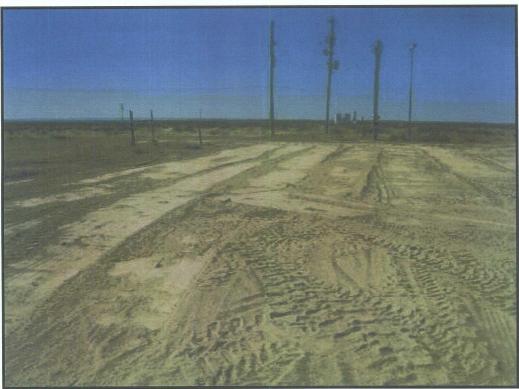
Location area backfilled facing east



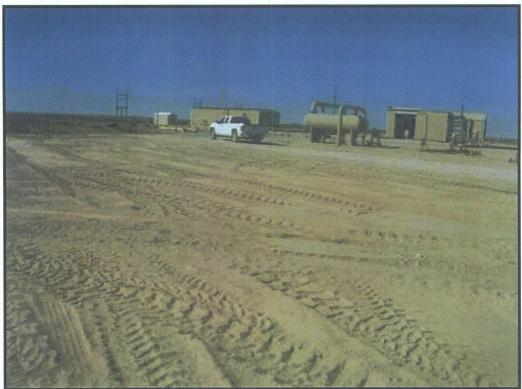
Location area backfilled facing north



Location area backfilled facing northeast



Location area backfilled facing west



Location area backfilled facing northwest

Appendix C- Copy of Laboratory Analytical Results



October 27, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 10/26/10 16:10.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524,4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

10/26/2010

Reported:

10/27/2010

Project Name: Project Number: AGA-10-001

Project Location:

PENASCO YARD EDDY CO. PENASCO S OF ARTESIA

Sampling Date:

10/26/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: NON-STAINED STOCKPILE (H021147-01)

BTEX 8260B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.100	0.100	10/27/2010	ND	1.00	100	1.00		
Toluene*	<0.100	0.100	10/27/2010	ND	0.970	97.0	1.00		
Ethylbenzene*	<0.100	0.100	10/27/2010	ND	1.04	104	1.00		
m+p - Xylene	<0.200	0.200	10/27/2010	ND	2.07	103	2.00		
o-Xylene	<0.100	0.100	10/27/2010	ND	1.02	102	1.00		
Total Xylenes*	<0.100	0.100	10/27/2010	ND	3.09	103	3.00		
Surrogate: Dibromofluoromethane	88.9	% 80-120							
Surrogate: Toluene-d8	94.6	% 80-120							
Surrogate: 4-Bromofluorobenzene	100	% 80-120							
TPH 418.1	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TPH 418.1	110	10.0	10/27/2010	ND	120	91.6	131	8.00	SUB-S
TPH 8015M	mg/	/kg	Analyze	d By: AB			- ····		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	10/27/2010	ND	168	84.1	200	2.09	
DRO >C10-C28	25.1	10.0	10/27/2010	ND	221	111	200	0.403	
Surrogate: 1-Chlorooctane	104 5	% 70-130							
Surrogate: 1-Chlorooctadecane	99.9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

SUB-SS

Analysis subcontracted to SunStar Laboratories, Inc.

ND

Analyte NOT DETECTED at or above the reporting limit

KPD

Relative Percent Difference

- 4r4r

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

-

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keene



By CR.

The sale

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

unitnees. All tituens much dry those for regulgance and any other sause whatesover shall be dealted watered in witting and recovered by Cardinal witten 30 days after completion of the applicable service. He so present of this is for inspected of each of a correspondent of services including without militation, has been applicable.

ted reasons or altistwise.	Phone Result: Yes No Add'l Phone #:		1	The state of the s		Eushigh The Ship	~	P	
smithter or mandage and additioned to the performance of services hereander by Chalmai, reprintees of wheller such clean is based upon any of the above stated reasons or chiefwise.	/ Received By:			Received By:		C Sample Condition CHECKED BY:	Cool Infact		ON ON
entities of managerals affaind out of inflated to the performance of services ingrand	Relinquished By:	10/00/0	Time: (6.10	Relinquished By: Date:	Time:	Delivered By: (Circle One)		Sampler - UPS - Bus - Other:	1

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



November 12, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 11/05/10 15:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey & Keene



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

11/05/2010

Reported:

11/12/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

11/05/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

ESample ID: BOTTOM 24' BGS (H021240-01)

втех 8021В	mg/	'kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* -Toluene*	<0.050	0.050	11/11/2010	ND	1.65	82.7	2.00	3.82	
Toluene*	0.181	0.050	11/11/2010	0.069	1.67	83.7	2.00	24.7	
Ethylbenzene*	<0.050	0.050	11/11/2010	ND	1.51	75.3	2.00	5.21	
Ethylbenzene* Fotal Xylenes*	<0.150	0.150	11/11/2010	ND	4.70	78.3	6.00	2.84	
Surrogate: 4-Bromofluorobenzene (PIL	85.3	% 80-120							
TPH 418.1	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
(PH 418.1	170	10.0	11/11/2010	ND	140	107	131	6.90	SUB-SS
грн 8015M	mg/	'kg	Analyze	d By: AB				· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/11/2010	ND	186	93.0	200	4.65	
DRO >C10-C28	89.4	10.0	11/11/2010	ND	173	86.4	200	8.04	
Surrogate: 1-Chlorooctane	1115	% 70-130							
Surrogate: 1-Chlorooctadecane	110 9	% 70-130							

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Celey & Kene



Safety & Environmental Solutions

Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

11/05/2010

Reported:

11/12/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

11/05/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: EAST WALL (H021240-02)

3TEX 8021B	mg/	/kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2010	ND	1.65	82.7	2.00	3.82	
roluene*	0.117	0.050	11/11/2010	0.069	1.67	83.7	2.00	24.7	
Ethylbenzene*	<0.050	0.050	11/11/2010	ND	1.51	75.3	2.00	5.21	
Ethylbenzene* Total Xylenes*	<0.150	0.150	11/11/2010	ND	4.70	78.3	6.00	2.84	
Surrogate: 4-Bromofluorobenzene (PIL	84.6	% 80-120	l						
TPH 418.1	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ГРН 418.1	12.0	10.0	11/11/2010	ND	140	107	131	6.90	SUB-SS
грн 8015M	mg/	/kg	Analyze	d By: AB			. <u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/11/2010	ND	186	93.0	200	4.65	

Surrogate: 1-Chlorooctadecane

102 %

70-130

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

11/05/2010

Reported:

11/12/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

11/05/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: NORTH WALL (H021240-03)

BTEX 8021B	mg,	/kg	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* Foluene*	<0.050	0.050	11/11/2010	ND	1.65	82.7	2.00	3.82	
Toluene*	0.070	0.050	11/11/2010	0.069	1.67	83.7	2.00	24.7	
Ethylbenzene*	<0.050	0.050	11/11/2010	ND	1.51	75.3	2.00	5.21	
Ethylbenzene* Total Xylenes*	<0.150	0.150	11/11/2010	ND	4.70	78.3	6.00	2.84	
Surrogate: 4-Bromofluorobenzene (PIL	85.6	% 80-120							
TPH 418.1	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1 TPH 8015M	100	10.0	11/11/2010	ND	140	107	131	6.90	SUB-SS
трн 8015м	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/11/2010	ND	186	93.0	200	4.65	
DRO >C10-C28	22.9	10.0	11/11/2010	ND	173	86.4	200	8.04	
Surrogate: 1-Chlorooctane	93.1	% 70-130			- "				
Surrogate: 1-Chlorooctadecane	90.0	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's kability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiance, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approxisal of Cardinal Jahoratoness.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

11/05/2010

Reported:

11/12/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

11/05/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: WEST WALL (H021240-04)

TEX 8021B

mg/kg

Analyzed By: cms

8 /		<u> - </u>						_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2010	ND	1.65	82.7	2.00	3.82	
Toluene*	0.054	0.050	11/11/2010	0.069	1.67	83.7	2.00	24.7	
Ethylbenzene*	<0.050	0.050	11/11/2010	ND	1.51	75.3	2.00	5.21	
Total Xylenes*	<0.150	0.150	11/11/2010	ND	4.70	78.3	6.00	2.84	
<u></u>									

Surrogate: 4-Bromofluorobenzene (PIL

90.0%

80-120

TPH 418.1		mg,	/kg	Analyze	d By: CK					
	alyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1		<10.0	10.0	11/11/2010	ND	140	107	131	6.90	SUB-SS
ГРН 418.1 ГРН 8015М		mg/	/kg	Analyze	d By: AB					
Ana	alyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10		<10.0	10.0	11/11/2010	ND	186	93.0	200	4.65	
DRO >C10-C28		<10.0	10.0	11/11/2010	ND	173	86.4	200	8.04	

Surrogate: 1-Chlorooctane

92.6 %

70-130

Surrogate: 1-Chlorooctadecane

91.4%

70-130

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

11/05/2010

Reported:

11/12/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

97.2 %

70-130

PENASCO S OF ARTESIA

Sampling Date:

11/05/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SOUTH WALL (H021240-05)

STEX 8021B	mg/	'kg	Analyze	d By: cms				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ĕ [*] Benzene*	<0.050	0.050	11/12/2010	ND	1.65	82.7	2.00	3.82	
Benzene* Toluene*	0.155	0.050	11/12/2010	0.069	1.67	83.7	2.00	24.7	
Ethylbenzene*	< 0.050	0.050	11/12/2010	ND	1.51	75.3	2.00	5.21	
Ethylbenzene* Total Xylenes*	<0.150	0.150	11/12/2010	ND	4.70	78.3	6.00	2.84	
Surrogate: 4-Bromofluorobenzene (PIL	86.7	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: CK					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1 IPH 8015M	10.0	10.0	11/11/2010	ND	140	107	131	6.90	SUB-SS
ГРН 8015M	mg/	kg	Analyze	d By: AB					=
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/11/2010	ND	186	93.0	200	4.65	
DRO >C10-C28	<10.0	10.0	11/11/2010	ND	173	86.4	200	8.04	
Surrogate: 1-Chlorooctane	98.2	% 70-130							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Notes and Definitions

SUB-SS

Analysis subcontracted to SunStar Laboratories, Inc.

ND

Analyte NOT DETECTED at or above the reporting limit

DDD.

Relative Percent Difference

**

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

-

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name:	Safety & Environmental Solutio	Solutions, Inc.	BILLTO		and the same of		ANA	ANALYSIS R	REQUEST	F-		
Project Manager.	Project Manager: Bob Allen		P.O. #:									
Address:	703 East Clinton		Company: Same	4.								
City;	Hobbs State: NM Zip: 88	Zip: 88240	Attn:									********
Phone #:	575-397-0510 Fax#: 575-	575-393-4388	Address:									
Project #;	Project Owner:		City:							***************************************		
Project Name:	100 - 01 - KBH		State: Zip:				***************************************					····
Project Location:			Phone #:				6-			H		
Sampler Name:			Fax #:	-			<u>,</u>			<u>.</u>		
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	LING			1					
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Terms and Conditions inlerest will be charged on all accounts more than 30 days past due at this rate of 20% for anium from the original date of breaker, and all cools of collectors, fretuding attentie's frets.

L Yes □ No IAdd I Phone# □ Yes □ No |Add I Fax#: Fax Result: REMARKS: Sample Condition
Cool Intact.
[] Yes E Yes Received By: ب الاستار الاستار Date) Time Sampler UPS - Bus - Other: Delivered By: (Gircle One) Refinduished By

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Griswold, Jim, EMNRD

From:

Griswold, Jim, EMNRD

Sent: To: Monday, December 06, 2010 10:06 AM

Cc:

'Jennifer Knowlton' Swazo, Sonny, EMNRD

Subject:

RE: Penasco CS

I look forward to seeing it.

Jim

From: Jennifer Knowlton [mailto:jenniferk@yatespetroleum.com]

Sent: Monday, December 06, 2010 9:59 AM

To: Griswold, Jim, EMNRD

Cc: 'Bob Allen'

Subject: RE: Penasco CS

I have an additional report that I am going to send to you this week regarding the removal of additional soil, etc. I suggest you review that second report and then we can arrange for a conference call next week. I will get you that report as soon as I can!

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: <u>iknowlton@yatespetroleum.com</u> Please change your address book!

----Original Message----

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]

Sent: Monday, December 06, 2010 9:56 AM

To: Jennifer Knowlton **Subject:** Penasco CS

Jennifer,

I finally got around to reviewing the investigation report for the Penasco station. It didn't take long. When can we get together (phone or otherwise) with SESI to talk about the future? Thanks.

Jim Griswold Senior Hydrologist Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Griswold, Jim, EMNRD

From:

Jennifer Knowlton [jenniferk@yatespetroleum.com]

Sent:

Thursday, November 04, 2010 9:02 AM

Co

Griswold, Jim, EMNRD 'David Boyer'; 'Bob Allen'

Subject:

RE: Update on Penasco

Thanks, Jim. As soon as we have lab results and the manifests, we will send in an updated report with additional (or not) recommendations for the site!

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: <u>iknowlton@yatespetroleum.com</u> Please change your address book!

----Original Message----

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]

Sent: Thursday, November 04, 2010 8:59 AM

To: Jennifer Knowlton

Subject: RE: Update on Penasco

Begin the backfilling as you see fit.

Jim

From: Jennifer Knowlton [mailto:jenniferk@yatespetroleum.com]

Sent: Thursday, November 04, 2010 8:31 AM

To: Griswold, Jim, EMNRD

Cc: Bob Allen; 'David Boyer'; Ivan Villa

Subject: Update on Penasco

Jim,

I just wanted to give you an update on Penasco and what has been done there:

We have a very large hole and have removed a lot of dirt. As soon as we review the manifests, I will have an updated report that includes a more accurate assessment of the total amount of soils that we have removed. However, based on a rough count of the trucks, we have removed approximately 2160 cubic yards.

SESI will be taking samples of the sides and bottom of the excavation on Friday if you or someone else wishes to witness the samples. Just let me know and I will coordinate.

I don't think we can excavate much more but these soil samples will tell us what is left onsite.

We have some backfill on site and can start on that with your permission next week. Please advise.

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: <u>iknowlton@yatespetroleum.com</u> Please change your address book!

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Griswold, Jim, EMNRD

From:

Jennifer Knowlton [jenniferk@yatespetroleum.com]

Sent:

Monday, October 18, 2010 8:53 AM

To: Subject: Griswold, Jim, EMNRD RE: Penasco CS

Thanks. We are scheduled to have some rain later this week. I am not sure what the exact plans are given that situation but will keep you informed.

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: <u>iknowlton@yatespetroleum.com</u> Please change your address book!

----Original Message----

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]

Sent: Monday, October 18, 2010 8:49 AM

To: Jennifer Knowlton **Subject:** Penasco CS

Jennifer,

I received a copy of SESI's 10/8/10 investigation report for the Penasco Compressor Station along with your cover letter late last week and am in the process of reviewing. Your letter requests permission to proceed with additional soil excavation. You may proceed. Please retain a copy of this email for your files as no other confirmation will be sent. Once I have fully reviewed the information, we can discuss additional actions which may be required. Thanks.

Jim Griswold Senior Hydrologist Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

direct: 505.476.3465

email: jim.griswold@state.nm.us

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Griswold, Jim, EMNRD

From:

Griswold, Jim, EMNRD

Sent:

Monday, October 18, 2010 8:47 AM 'jknowlton@yatespetroelum.com'

To: Cc:

Swazo, Sonny, EMNRD

Subject:

Penasco CS

Jennifer,

I received a copy of SESI's 10/8/10 investigation report for the Penasco Compressor Station along with your cover letter late last week and am in the process of reviewing. Your letter requests permission to proceed with additional soil excavation. You may proceed. Please retain a copy of this email for your files as no other confirmation will be sent. Once I have fully reviewed the information, we can discuss additional actions which may be required. Thanks.

Jim Griswold Senior Hydrologist Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

direct: 505.476.3465

email: jim.griswold@state.nm.us

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JAMES S. BROWN

JOHN D. PERINI CHIEF FINANCIAL OFFICER

October 12, 2010

Jim Griswold Senior Hydrologist Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re:

Penasco Compressor Station

Dear Jim:

Enclosed please find the results of the contamination delineation at the Penasco Compressor Station. Based on the results of the extensive soil sampling that was done, we have two recommendations for proceeding with Phase II of the cleanup:

- 1) Remove an additional 2200 cubic yards (approximate) of highly contaminated soil from the south and west sides of the south tank battery. Field samples will be taken to ensure that the most highly contaminated areas are removed.
- 2) The installation of four passive wind vents. These would be located in the center of Sump 2, the center of Sump 23, the west side of the south tank battery and the south side of the south tank battery. We recommend testing the passive vents on a monthly basis. When the vents show three consecutive months of adequate samples, a whole air sample will be sent to the lab. At this time, the results of the monthly analysis and the lab analysis will be submitted to the OCD.

We are ready to proceed with the soil excavation as soon as possible. Once the highly contaminated soil has been removed, the south tank battery area will need to be back filled in preparation for the installation of the passive wind vents. Agave is requesting permission to proceed with the additional evacuation. We can discuss the installation location and numbers of the passive vents while this work in on going if necessary.

If you have any questions or comments on this information, please contact me via email at jknowlton@yatespetroelum.com.

Sincerely,

Jennifer Knowlton

Environmental Engineer



Safety & Environmental Solutions, Inc.

October 11, 2010

Ms. Jennifer Knowlton Agave Energy Company 105 S 4th Street Artesia, NM 88210

Re: Penasco Yard Subsurface Investigation

Dear Ms. Knowlton:

Attached with this letter is our investigation report conducted at the above location. We investigated hydrocarbon releases at three locations at the site which were at a former tank battery and locations identified as sump S2 and sump S23.

The investigation established vertical and horizontal extent of the releases at all three locations with the exception of two borings at the tank battery site where auger refusal prevented deeper drilling. The hydrocarbon concentrations at total depth at these two borings are relatively low compared to those higher up in the boring (see report Table 3).

Groundwater within 1.5 miles of the site averages 182 feet below the surface. The closest well is the Penasco yard water well several hundred feet to the north of sump 2. The depth to water reported by the NM State Engineer for this well was 200 feet below ground surface. The proximity of water wells within 1,000 feet of the yard requires a TPH cleanup goal of 100 mg/Kg for impacted soils.

As a result of our work we are providing the below recommendations for remediation at the location:

- 1. Additional soil removal in the tank battery excavation is recommended, specifically in the area of BSB-1 and BSB-4. BSB-1 has highly elevated values of Total BTEX, GRO and TPH at a depth 20 feet below land surface. BSB-4 has highly elevated values of Total BTEX and GRO at depth from 10.5 feet to 35 feet. However, due to practicality, excavation to a depth of just 25.5 feet (20.5 feet below the current bottom) is suggested for the highly contaminated soils. We suggest that the excavation be left open for at least a few days for natural aeration.
- 2. Provided that air quality issues and/or permitting are not a restrictive consideration, installation of a grid of passive wind ventilation turbines is recommended with a grid pattern defined by battery soil boring locations BSB-1, BSB-2, BSB-4 and the sides of the existing excavation (report Figure 4). Installation would be performed following backfill to the original surface to prevent water ponding in the excavation.
- 3. Installation of a passive wind ventilation turbine is recommended at the center of sump 2 and the center of sump 23 provided that air quality issues and/or permitting are not a restrictive consideration.

Installation of a protective cover liner is generally not recommended when only hydrocarbons

are present. Unlike chlorides, these can be remediated with active or passive remediation methods and do not require long term isolation to prevent migration.

If you have any questions please call me or Bob Allen at 575 397-0510.

Sincerely,

David Boyer, P.C

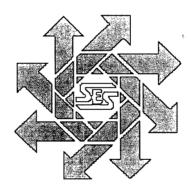
Attachment

Agave Energy Company

Report of Investigation Penasco Compressor Station

Section 26, Township 18S, Range 25E Eddy County, New Mexico

October 8, 2010



Prepared for:

Agave Energy 105 South 4th Street Artesia, New Mexico 88210

Prepared by:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240

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I. Contacts

Representative	Company	Telephone	E-mail
Jennifer Knowlton	Agave Energy Company	(575) 748-4471	jknowlton@yatespetroleum.com
Bob Allen	SESI	(575) 397-0510	ballen@sesi-nm.com

II. Background

Safety & Environmental Solutions, Inc. (SESI) was contracted by Agave Energy Company to propose a workplan for the investigation and remediation of three areas located within the Penasco Compressor Station. The site is located in E/2 SE/4 of Section 26, Township 18 South, Range 25 East, Eddy County, New Mexico (Figure 1).

Two areas originally contained sumps that were removed and contamination was found in the soil beneath the sumps. The third area originally contained above ground tanks and contamination was found after the tanks were removed. The locations of the areas investigated are shown in Figure 2.

After sumps #2 and #23 were removed the most highly contaminated soils were removed to a depth of 20' and 13' respectively. On February 10, 2010 and February 12, 2010, the bottoms and sidewalls of the existing excavations were sampled and found to still contain hydrocarbons (TPH) in concentrations ranging from 7,000 ppm to 12,600 ppm in sump #23, and from 711 ppm to 1,460 ppm in sump #2 (Table 1). BTEX analysis of these samples showed no Benzene and small amounts of Toluene, Ethyl-benzenes and Xylenes. Vertical and horizontal extents of contamination had not yet been determined in either excavation. Chloride concentrations in these samples are less than 50 ppm.

The bermed tank battery area left from the removal of the tanks was sampled on December 10, 2009 and found to also contain hydrocarbons (TPH) in concentrations ranging from 593 ppm to 881 ppm with small amounts of BTEX (Table 1). The vertical and horizontal extent of contamination had not yet been determined to date. Chloride concentrations in these samples are less than 120 ppm.

III. Surface and Groundwater

The closest surface water is the Pecos River approximately 7 miles east from the subject site. The Rio Peñasco, an ephemeral watercourse, is approximately 1,560 feet north of the location.

According to information obtained from the New Mexico State Engineer online database, the closet groundwater well of record in the area (permit number RA 05344) is located 285 feet northeast of sump 2 in the Peñasco yard. The well owner is Yates Petroleum Corporation. In May 1967 the reported depth to water was 200 feet.

There are 32 water wells of record within a five-mile radius of the Penasco yard (Figure 3). The reported depth of water in these wells range from 42 feet in a well 1.5 miles southwest of the facility to 270 feet less than one mile southeast from the subject site (Table 2). The well with a water level of 42 feet is within 0.1 miles of a well with a depth to water of 204 feet. The average depth to water for the 32 wells was 134 feet. Further to the east, water wells closer to the Pecos River have more shallow water levels, generally

less than 100 feet, as would be expected. The five wells located within 1.4 miles from the subject site all have depths to water in excess of 100 feet.

It is the opinion of Agave Energy and SESI that this information is an adequate indication of the depth to water in the immediate vicinity of the subject site and no further investigation into the depth of the water is necessary.

IV. Soils

The surface soils in the area are classified by the USDA Soil Conservation Service as part of the Reagan-Upton complex (Soil Survey, Eddy County). These soils are well drained, moderately dark colored, calcareous loams that are shallow to moderately deep.

V. Characterization

The cleanup level reached by the application of the "Guidelines for Remediation of Leaks, Spills and Releases" New Mexico Oil Conservation Division — August 13, 1993 (Guidelines) to this site are 10 mg/Kg benzene, 50 mg/Kg total BTEX and 100 ppm TPH. Application of the NMOCD's ranking criteria for contaminated soils at this site is presented below.

Depth to Ground Water:			
Vertical distance from contaminants to	Less than 50 feet	20 points	
seasonal high water elevation of	50 feet to 99 feet	10 points	
groundwater	>100 feet	0 points	X
Wellhead Protection Area:			
Less than 200 feet from a private domestic	Yes	20 points	X
water source; or less than 1000 feet from all	No	0 points	
other water sources			
Distance to Surface Water:			
Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches	>1000 feet	0 points	X
	RANKING SCORE (T	OTAL POINTS)	20

VI. Work Performed

An investigation work plan was proposed by SESI and accepted by Agave. It recommended a minimum of five (5) boreholes be installed to determine vertical and horizontal extent for each area. Each of the sump excavations would be backfilled to allow the installation of a borehole in approximately the center of each existing excavation. The borehole would be advanced to the depth where TPH concentrations are at or below 100 ppm. Then the borehole would be advanced another 5 feet and sampled again to insure that the vertical extent has been determined. The bore holes were to be installed using a hollow stem auger with a 5-foot core barrel or split-spoon sampler. Samples would be collected in five (5) foot intervals sufficient to determine the vertical extent of contamination beneath the site.

The area would then be delineated horizontally in 20 ft. radius from the midpoint of each area or as buried lines allow, until TPH concentrations are at or below <100 ppm. Samples would be submitted under Chain of Custody to Cardinal Laboratories, Hobbs,

New Mexico, for TPH EPA Method 418.1, TPH EPA Method 8015, and BTEX EPA Method 8260 analyses. Upon completion of sampling, all boreholes would be sealed from total depth to surface with a bentonite/cement grout. The locations of the boreholes for each area are shown in Figures 4, 5 and 6.

The plan to delineate the bermed area left from the tank removal would be the same plan described above with the exception of the bermed area would be delineated horizontally from the midpoint of the berm area. The depth of the boreholes will be determined by the concentrations of contamination encountered but will stop where the TPH concentrations are at or below 100 ppm.

A one-call was initiated prior to arrival on site and prior to drilling Badger Daylighting services were used to hydrovac locations to locate buried lines at the site of each boring. Drilling was performed by WDC Exploration and Wells of Peralta, New Mexico, using a CME-85 hollow-stem auger with a splitspoon downhole hammer attachment for sample collection.

The work proceeded as proposed in the plan with the exception that total depth of the borings was limited in some instances by large cobbles and boulders which resulted in some intervals not being sampled and with auger refusal in most boreholes. Also, heavy rainfall on June 29, 2010 resulted in the tank battery excavation being flooded and the other excavation locations being to wet for heavy equipment setup. This necessitated postponement of additional work until July 26-30. Finally, because BSB-2 and BSB-4 were adjacent to the excavation walls, two additional borings were drilled to the south and west of the tank battery to determine horizontal extent of hydrocarbon impacts;

VII. Summary and Conclusions

A soil boring investigation was conducted in June and July 2010 to determine horizontal and vertical extent of contamination at three locations at the Agave Penasco yard south of Artesia, NM. At each location borings were advanced to either auger refusal or until hydrocarbon impacted material was no longer encountered. Borings outside the center of each excavation were advanced to determine if horizontal migration had occurred. Samples were collected from auger splitspoons for laboratory analysis of benzene, toluene, ethylbenzene and total xylene volatiles (BTEX), gasoline and diesel range organics (GRO and DRO, EPA method 8015B) and Total Petroleum Hydrocarbons (EPA method 418.1)

Results of the review were compared with NM Oil Conservation Division "Guidelines for Remediation of Leaks, Spills and Releases" (1993) to determine the relative threat to public health, fresh waters and the environment, and to provide guidance for remediation. The OCD uses a ranking system with depth to groundwater, wellhead protection area and distance to a surface water body to determine possible remediation scenarios.

Depth to groundwater at the site was determined from state engineer records. 32 water wells were found within a five mile radius of the Penasco yard. Depth to water averages 134 feet with values ranging from 42 feet to 270 feet. Depth to water for the five wells closest to the Peñasco yard averages 182 feet. The closest private well is used by Agave and its distance is 285 feet from the location of sump 2. The depth to water in that well was reported as 200 feet. The distance to the nearest surface water body (ephemeral Peñasco Draw) is approximately 1,560 feet.

Comparing values of depth to water, wellhead protection area and distance to a surface water body with the ranking criteria results in a ranking score of 20 and establishes recommended remediation levels of benzene at 10 ppm (mg/Kg), total BTEX of 50 ppm and TPH of 100 ppm.

Based on the above ranking criteria, four of the soil borings from the tank battery location, two borings from the sump 2 location and one boring from sump 23 exceed the ranking criteria in one or more samples from each boring (Table 3).

Of those, only two borings from the tank battery (center excavation, BSB-1, 40 feet; and S-side excavation, BSB-2, 42 feet) exceeded the 100 mg/Kg standard at boring total depth. At those depths, minimal levels of benzene, total BTEX and TPH remain in these two boreholes. Auger refusal in boulders and cobbles prevented further sampling below 40-42 feet from the surface.

Vertical extent of contamination was established in all other borings other than those two shown above.

VIII. Recommendations

The following recommendations for additional work are made for the Penasco yard:

- 1. Additional soil removal in the tank battery excavation is recommended, specifically in the area of BSB-1 and BSB-4. BSB-1 has highly elevated values of Total BTEX, GRO and TPH at a depth 20 feet below land surface. BSB-4 has highly elevated values of Total BTEX and GRO at depth from 10.5 feet to 35 feet. However, due to practicality excavation to a depth of just 25.5 feet (20.5 feet below the current bottom) is suggested for highly contaminated soils.
- 2. Provided that air quality issues and/or permitting are not a restrictive consideration, installation of a grid of passive wind ventilation turbines is recommended with a grid pattern defined by battery soil boring locations BSB-1, BSB-2, BSB-4 and the sides of the existing excavation.
- 3. Installation of a passive wind ventilation turbine is recommended at the center of sump 2 and the center of sump 3 provided that air quality issues and/or permitting are not a restrictive consideration.
- 4. Installation of a protective cover liner is generally not recommended when only hydrocarbons are present. Unlike chlorides, these can be remediated with active or passive remediation methods and do not require long term isolation to prevent migration.

Following discussion of these recommendations with Agave and determination that air quality issues are not a constraint for use of passive ventilation, an appropriate final closure plan proposal will be submitted to the New Mexico Oil Conservation Division for approval.

IX. Figures, Tables & Appendices

Table 1- December 2009 - February 2010 Soil Analytical Summary Table

Table 2- Office of State Engineer Water Well Information

Table 3- Soil Boring Analytical Results

Figure 1- Vicinity Map

Figure 2- Site Plan

Figure 3- State Engineer Water Well Locations

Figure 4- Location of Tank Battery Soil Borings

Figure 5- Location of Sump 2 Soil Borings

Figure 6- Location of Sump 23 Soil Borings

Appendix A- Copy of Laboratory Analytical Results

Appendix B- Site Photographs

Appendix C- Soil Boring Logs

<u>Table 1- December 2009 – February 2010 Soil</u> <u>Analytical Summary Table</u>

		Cortific		ık Battery ılysis Sumı	mary 3556	24		
Sample ID	CI- (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	TPH: GRO+DRO (mg/kg)
355624-001 GS/Comp- Surface NW 4-4 In SOIL Dec-10-09	119	0.0075	0.2035	0.1651	1.0373	280	325	605
355624-002 GS/Comp- 001 NW 1-1 ft. SOIL Dec-10-09	97.3	BRL	0.1979	0.4970	5.143	374	507	881
355624-003 GS/Comp- Surface NE 4-4 In. SOIL Dec-10-09	103	BRL	BRL	0.0085	0.0923	219	572	791
355624-004 GS/Comp- 001 NE 1-1 ft. SOIL Dec-10-09	103	BRL	0.0124	0.0394	0.4068	360	411	771
355624-005 G/S Comp- 001 SW 4-4 In. SOIL Dec-10-09	118	BRL	0.3387	0.6881	4.559	331	431	762
355624-006 GS/Comp- 001 SW 1-1 ft. SOIL Dec-10-09	53.4	BRL	0.1405	0.3408	4.632	336	257	593

^{*}Chloride EPA 300.0

^{*}BTEX-EPA 8021 *TPH by SW 8015B

	Certi	Tank ficate of Analy	Battery sis Summary	y 362277		
Sample ID	CI- (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)
362277-001 GS/Comp-Bottom 6-6 ft. SOIL Feb-12-10	6.73	1,960	<0.0012	<0.0024	0.0116	0.0042
362277-002 GS/Comp-Sidewall 5-5 ft. SOIL Feb-12-10	176	628	<0.0012	<0.0024	<0.0012	<0.0012

^{*}Chloride EPA 300.0 *BTEX-EPA 8021

^{*}TPH by Spectrophoto Ir

	C	ertificate o	Sump U	nit #2 s Summaı	v 356167			
Sample ID	CI- (mg/kg)	Benze ne (mg/kg)	Toluen e (mg/kg)	Ethyl- benzen e (mg/kg	Total Xylene s (mg/kg	GRO C6- C10 (mg/kg	DRO C10-C28 (mg/kg)	TPH: GRO+DRO (mg/kg)
356167-001 GS/Unit #2 Bottom 20-20 ft. SOIL Dec-17-09	76.8	<0.001	<0.002 2	<0.001	0.0082	31.0	163	194
356167-002 GS/Unit #2 Sidewall 15-15 ft. SOIL Dec-17-09	103	<0.001 1	<0.002 2	<0.001	<0.001 1	<16.6	21.0	21.0
356167-003 GS/Unit #23 Bottom 15-15 ft. SOIL Dec-17-09	<16.8	0.1865	5.368	2.397	15.40	422	1,,060	1,482
356167-004 GS/Unit #23-010 Sidewall 10-10 ft. SOIL Dec-17-09	22.4	<0.001	<0.002	<0.001	0.0184	<16.2	51.2	51.2
356167-005 GS/Unit #23-012 Sidewall 12-12 ft. SOIL Dec-17-09	11.2	<0.276 5	0.6911	0.4949	8.705	703	1,530	2,233

^{*}Chloride EPA 300.0

^{*}BTEX-EPA 8021 *TPH by SW 8015B

		Sump Unit #2 (E				
Sample ID	CI- (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)
362844-001 GS/Comp-Bottom 20-20 ft. SOIL Feb-17-10	13.3	1,460	<0.0011	<0.0022	0.0128	0.2105
362844-002 GS/Comp-Sidewall 15-15 ft. SOIL Feb-17-10	45.3	711	<0.0011	<0.0022	<0.0011	<0.0011

*Chloride EPA 300.0 *BTEX-EPA 8021

*TPH by EPA 418.1

	С	ertificate	Sump U of Analysi		rv 352340)		
Sample ID	CI- (mg/kg)	Benze ne (mg/kg	Toluen e (mg/kg	Ethyl- benzen e (mg/kg	Total Xylene s (mg/kg)	GRO C6- C10 (mg/kg	DRO C10- C28 (mg/kg)	TPH: GRO+DRO (mg/kg)
352340-001 GS/Comp-#4 Bottom 13-13 ft. SOIL Nov-12-09	15.5	<0.022 7	0.6254	0.5829	0.8593	121	208	329
352340-002 GS/Comp-#4 Sidewall/10' 10-10 ft. SOIL Nov-12-09	9.98	0.3304	3.043	3.765	23.95	873	1,500	2,373
352340-003 GS/Comp-#4/12' 12-12ft. SOIL Nov-12-09	10.6	0.0606	1.771	1.147	6.740	278	388	666

^{*}Chloride EPA 300.0

^{*}TPH by SW 8015B

-	Certif	Sump Sump	Unit #23 sis Summary	362274		
Sample ID	CI- (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)
362274-001 GS/Comp-Bottom 13-13 ft. SOIL Feb-12-10	21.6	7,000	<0.0012	0.0063	0.0030	0.0292
362274-002 GS/Comp-Sidewall 12-12 ft. SOIL Feb-12-10	25.9	12,600	<0.0011	0.0447	0.0471	0.3041

^{*}Chloride EPA 300.0 *BTEX-EPA 8021

^{*}BTEX-EPA 8021

^{*}TPH by EPA 418.1

Table 2- Office of State Engineer Water Well Information

Office of State	e Engineer Water V	Vell Informati	on
Well #	Depth of Water	Distance	Direction
RA 05344	200	0.054 miles	NE
RA 04068	168	0.452 miles	SW
RA 03975	270	0.728 miles	SE
RA 04128	100	1.249 miles	S
RA 07639	172	1.393 miles	SE
RA 04722	42	1.521 miles	SW
RA 05620	158	1.602 miles	NE
RA 04236	204	1.625 miles	SW
RA 04784	190	1.697 miles	NE
RA 03983	100	1.943 miles	SE
RA 04136	90	2.216 miles	E
RA 04160	100	2.502 miles	NE
RA 04283	125	2.694 miles	NE
RA 07066	100	2.806 miles	SE
RA 05333	260	2.929 miles	SW
RA 07260	100	2.947 miles	SE
RA 08812 REPAR	150	2.989 miles	Е
RA 07954	175	2.989 miles	SE
RA 10133	138	3.038 miles	SE
RA 08875	150	3.101 miles	SE
RA 08097	120	3.143 miles	SE
RA 08557	100	3.173 miles	SE
RA 06986	165	3.191 miles	SE
RA 11036 POD 1	110	3.298 miles	SE
RA 09276 POD2	100	3.312 miles	SE
RA 07124	94	3.396 miles	SE
RA 06129	190	3.436 miles	SE
RA 04272	58	3.465 miles	SE
RA 03168	70	3.550 miles	SE
RA 06813	97	3.866 miles	SE
RA 08999	80	4.554 miles	Е
RA 08098 RA08315	100	5.230 miles	SE

Table 3- Soil Boring Analytical Results

Table 3. Soil Boring Analytical Results, June-July 2010, Agave Penasco Yard Investigation.

	Boring ID and Corrected				i	,		0	0	i i
	(feet below		Benzene	Toluene	Ethyl Benzene	lotai Xylenes	Total BTEX	GKO (C6-C10)	DRO (>C10-C28)	(418.1)
Location	land surface)	Sample Date	(<10 mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(<50/mg/Kg)	(mg/Kg)	(mg/Kg)	(<100 mg/Kg)
Tank Battery	tery									
Center excavation	BSB-1, 10 ft.*	06/29/10	<0.050	<0.050	<0.050	<0.300	<0.050	13.3	104	1,580
Center excavation	BSB-1, 15 ft.*	06/29/10	<0.050	<0.050	5.61	17.5	23.1	305	424	1,500
Center excavation	BSB-1, 20 ft.*	06/29/10	1.68	5.02	24.2	87.2	118	1,420	1,240	7,030
Center excavation	BSB-1, 25 ft.*	06/29/10	0.234	0.667	3.21	11.9	16.0	13.0	<10.0	<100
Center excavation	BSB-1, 30 ft.*	06/29/10	0.134	0.132	1.05	3.69	5.01	<10.0	<10.0	<100
Center excavation	BSB-1, 35 ft.*	06/29/10	0.081	0.071	1.76	7.66	9.57	238	301	1,290
Center excavation	BSB-1, 40 ft.*	06/29/10	0.084	<0.050	0.964	4.00	5.05	60.4	11.9	332
* Five feet added to lab	sample ID depth to account for depth	to account for o	lepth of excavation	tion.						
	_									
S-side excavation	BSB-2, 10 ft.*	06/29/10	<0.050	<0.050	0.845	6.36	7.21	33.5	28.3	1,690
S-side excavation	BSB-2, 15 ft.*	06/29/10	<0.050	<0.050	99.0	3.66	4.32	47.6	10.7	<100
S-side excavation	BSB-2, 20 ft.*	06/29/10	<0.050	<0.050	0.106	0.598	0.704	<10.0	<10.0	<100
S-side excavation	BSB-2, 25 ft.*	06/29/10	<0.050	<0.050	<0.050	<0.300	<0.050	80.8	57.1	255
S-side excavation	BSB-2, 30 ft.*	06/29/10	<0.050	0.104	0.201	1.35	1.66	41.0	56.2	<100
S-side excavation	BSB-2, 35 ft.*	06/29/10	0.156	0.326	2.30	19.0	21.8	479	387	1,470
S-side excavation	BSB-2, 40 ft.*	06/29/10	0.235	0.758	2.17	14.1	17.3	180	124	530
S-side excavation	BSB-2, 42 ft.*	06/29/10	<0.050	<0.050	0.128	0.788	0.916	33.6	71.7	163
* Five feet added to lab	sample ID depth to	to account for depth	lepth of excavation	tion.						
E-side excavation	BSB-3, 3-8 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
E-side excavation	BSB-3, 13 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
E-side excavation	BSB-3, 18 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
E-side excavation	BSB-3, 23 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
E-side excavation	BSB-3, 28 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
E-side excavation	BSB-3, 33 ft.	07/26/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
W-side excavation	BSB-4 105#	07/27/10	1 92	316	20.0	0 00	193	1 140	700	3 240
W-side excavation	BSB-4, 15.5 ft.	07/27/10	3.84	39.8	23.5	80.9	148	445	743	3.070
W-side excavation	BSB-4, 20.5 ft.	07/27/10	1.67	28.0	16.6	77.9	124	306	619	2,870
W-side excavation	BSB-4, 25.5 ft.	07/27/10	4.24	9.87	16.5	0.69	100	440	351	1,620
W-side excavation	BSB-4, 30.5 ft.	07/27/10	2.71	24.9	19.9	84.4	132	809	570	2,740
W-side excavation	BSB-4, 35.5 ft.	07/27/10	0.278	7.05	7.40	48.0	62.7	295	388	1,430
W-side excavation	BSB-4, 40.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
W-side excavation	BSB-4, 45.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100

Table 3. Soil Boring Analytical Results, June-July 2010, Agave Penasco Yard Investigation.

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	Boring ID and									
	Corrected									
	Depth				Ethyl	Total		GRO	DRO	ТРН
	(feet below		Benzene	Toluene	Benzene	Xylenes	Total BTEX	(C6-C10)	(>C10-C28)	(418.1)
Location	land surface)	Sample Date	(<10 mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(<50/mg/Kg)	(mg/Kg)	(mg/Kg)	(<100 mg/Kg)
Tank Battery (continued)	ontinued)									
N-side excavation	BSB-5, 10.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	580
N-side excavation	BSB-5, 20.5 ft.	07/27/10	<0.100	<0.100	0.258	1.11	1.37	<10.0	<10.0	<100
N-side excavation	BSB-5, 25.5 ft.	07/27/10	<0.100	<0.100	<0.100	1.96	1.96	<10.0	<10.0	<100
N-side excavation	BSB-5, 30.5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 10 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 15 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 20 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
	BSB-6, 25 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' S. of excavation	BSB-6, 30 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 10 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 15 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	11.1	<100
20' W. of excavation	BSB-7, 20 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 33 ft.	07/28/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 35 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 40 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' W. of excavation	BSB-7, 45 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
Sump 2										
21' NW. of center S2	S2SB-1, 5 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 10 ft.	07/27/10	<0.100	<0.100	<0.100	0.255	0.255	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 20 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 25 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 30 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
	S2SB-1, 35 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
21' NW. of center S2	S2SB-1, 40 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
Center sump 2	S2SB-2 20 ft	07/27/10	<0.100	<0.100	<0.100	<0.300	V0 100	0.00	7700	2
C demicrotacy	COCD 2 25 ft	07/27/10	0.70	00.00	00.00	000.0	00.00	0.0	0.07	000
Center sump z	323B-2, 25 II.	01/12/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	182
	S2SB-2, 30 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	55.2	357
Center sump 2	S2SB-2, 40 ft.	07/27/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100

Table 3. Soil Boring Analytical Results, June-July 2010, Agave Penasco Yard Investigation.

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Corrected Depth (feet below land surface) Sample Date Sumple Continued) 19.5' SE. of center S2 \$228B-3, 10 ft. 07/28/10 19.5' SE. of center S2 \$228B-3, 15 ft. 07/28/10 19.5' SE. of center S2 \$228B-3, 20 ft. 07/28/10 19.5' SE. of center S2 \$228B-3, 32 ft. 07/28/10 19.5' SW. of center S2 \$228B-4, 10 ft. 07/28/10 19.5' SW. of center S2 \$228B-4, 20 ft. 07/28/10 19.5' SW. of center S2 \$228B-4, 20 ft. 07/28/10 19.5' SW. of center S2 \$228B-4, 20 ft. 07/28/10 19.5' SW. of center S2 \$228B-4, 20 ft. 07/28/10 19.5' SW. of center S2 \$228B-4, 20 ft. 07/28/10 19.5' SW. of center S2 \$228B-5, 10 ft. 07/28/10 18' NE. of center S2 \$228B-5, 10 ft. 07/28/10 18' NE. of center S2 \$228B-5, 30 ft. 07/28/10 18' NE. of center S2 \$228B-5, 30 ft. 07/28/10 18' NE. of center S2 \$228B-5, 34 ft. 07/28/10 20' NE. of center S2 \$238B-1, 15 ft. 07/29/10 20'	<u>v</u>	(<10 mg/kg) (<10 mg/kg) (<10 mg/kg) (<0.100	(mg/Kg) <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100	Ethyl Benzene (mg/Kg)	Total Xylenes	Total BTEX	GRO (C6-C10)	DRO (>C10-C28)	TPH (418.1)
(feet below Location land surface) Sump 2 (continued) Sump 2 (continued) SE. of center S2 S2SB-3, 15 ft. SE. of center S2 S2SB-3, 20 ft. SE. of center S2 S2SB-3, 32 ft. SW. of center S2 S2SB-4, 10 ft. SW. of center S2 S2SB-4, 10 ft. SW. of center S2 S2SB-4, 20 ft. SW. of center S2 S2SB-4, 25 ft. SW. of center S2 S2SB-4, 25 ft. SW. of center S2 S2SB-4, 35 ft. SW. of center S2 S2SB-4, 35 ft. SW. of center S2 S2SB-4, 35 ft. SW. of center S2 S2SB-5, 5 ft. WE. of center S2 S2SB-5, 30 ft. WE. of center S2 S2SB-5, 30 ft. WE. of center S2 S2SB-5, 34 ft. Sump 23 S23SB-1, 15 ft. E. of center S2 S2SB-1, 16 ft. Sump 23 S23SB-1, 10 ft. E. of center S2 S2SB-1, 10 ft. Sump 23 S23SB-1, 10 ft. E. of center S2 S2SB-1, 10 ft. Sump 23 S23SB-1, 10 ft. E. of center S2 S2SB-1, 10 ft. Sump 23 S23SB-1, 10 ft. E. of center S2 S2SB-1, 10 ft. Sump 23 S23SB-1, 10 ft. E. of center S23 S23SB-1, 10 ft.	<u>v</u>		Co.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0.100 (0	Benzene (mg/Kg)	Xylenes	Total BTEX	(C6-C10)	(>C10-C28)	(418.1)
Location land surface) Sump 2 (continued) SE. of center S2 S2SB-3, 10 ft. SE. of center S2 S2SB-3, 15 ft. SE. of center S2 S2SB-3, 32 ft. SE. of center S2 S2SB-4, 10 ft. SW. of center S2 S2SB-4, 10 ft. SW. of center S2 S2SB-4, 25 ft. SW. of center S2 S2SB-4, 26 ft. SW. of center S2 S2SB-4, 56 ft. SW. of center S2 S2SB-5, 10 ft. VE. of center S2 S2SB-5, 10 ft. VE. of center S2 S2SB-5, 10 ft. VE. of center S2 S2SB-5, 30 ft. VE. of center S2 S2SB-5, 34 ft.	<u>v</u>		(mg/Kg) <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100	(mg/Kg) <0.100	•	(~50/ma/Ka)	(mar/1/m)		
Sump 2 (continued) SE. of center S2	8/10 8/10 8/10 8/10 8/10 8/10 8/10 8/10	00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100	 40.100 40.100 40.100 40.100 60.100 < 0.100 < 0.100 < 0.100 	<0.100	(mg/Kg)	- デニ・デニ・ラウノ	(BY/BH)	(mg/Kg)	(<100 mg/Kg)
SE. of center S2	8/10 8/10 8/10 8/10 8/10 8/10 8/10 8/10	00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100	 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 	<0.100					
SE. of center S2	8/10 8/10 8/10 8/10 8/10 8/10 8/10 8/10	00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100 00.100	 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 		<0.300	<0.100	<10.0	<10.0	<100
SE. of center S2	8/10 8/10 8/10 8/10 8/10 8/10 8/10 8/10	 < 0.100 	<0.100<0.100<0.100<0.100<0.100<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
SE. of center S2	8/10 8/10 8/10 8/10 8/10 8/10 8/10	 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 	<0.100<0.100<0.100<0.100<0.100<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
SW. of center S2 S2SB-4, 10 ft. SW. of center S2 S2SB-4, 15 ft. SW. of center S2 S2SB-4, 20 ft. SW. of center S2 S2SB-4, 25 ft. SW. of center S2 S2SB-4, 35 ft. SW. of center S2 S2SB-5, 5 ft. VE. of center S2 S2SB-5, 5 ft. VE. of center S2 S2SB-5, 10 ft. VE. of center S2 S2SB-5, 30 ft. VE. of center S2 S2SB-5, 34 ft. Sump 23 E. of center S23 S2SB-1, 15 ft. Center S2 S2SB-5, 34 ft. Sump 23 E. of center S23 S2SB-1, 15 ft. Center S23 S2SB-1, 10 ft. Center S25 S2SB-1, 10 ft. Center S	8/10 8/10 8/10 8/10 8/10 8/10 8/10	 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 	< 0.100< 0.100< 0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
SW. of center S2 S2SB-4, 15 ft. SW. of center S2 S2SB-4, 20 ft. SW. of center S2 S2SB-4, 25 ft. SW. of center S2 S2SB-5, 5 ft. NE. of center S2 S2SB-5, 5 ft. NE. of center S2 S2SB-5, 10 ft. NE. of center S2 S2SB-5, 30 ft. NE. of center S2 S2SB-5, 30 ft. NE. of center S2 S2SB-5, 30 ft. Sump 23 E. of center S23 S2SB-1, 15 ft. Sump 23 E. of center S23 S2SB-1, 15 ft.	8/10 8/10 8/10 8/10 8/10 8/10	 <0.100 <0.100 <0.100 <0.100 <0.100 <0.100 	<0.100	<0.100	<0.300	<0.100	<10.0	64.5	937
SW. of center S2 S2SB-4, 20 ft. SW. of center S2 S2SB-4, 25 ft. SW. of center S2 S2SB-4, 35 ft. SW. of center S2 S2SB-5, 5 ft. VE. of center S2 S2SB-5, 10 ft. VE. of center S2 S2SB-5, 10 ft. VE. of center S2 S2SB-5, 30 ft. VE. of center S2 S2SB-5, 34 ft. VE. of center S2 S2SB-5, 34 ft. Sump 23 E. of center S23 S23SB-1, 15 ft. E. of center S23 S23SB-1, 15 ft. E. of center S23 S23SB-1, 20 ft.	8/10 8/10 8/10 8/10 8/10	 < 0.100 < 0.100 < 0.100 < 0.100 	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
SW. of center S2 S2SB-4, 25 ft. SW. of center S2 S2SB-4, 35 ft. VE. of center S2 S2SB-5, 5 ft. VE. of center S2 S2SB-5, 10 ft. VE. of center S2 S2SB-5, 20 ft. VE. of center S2 S2SB-5, 30 ft. VE. of center S2 S2SB-5, 34 ft. Sump 23 E. of center S23 S23SB-1,15 ft. E. of center S23 S23SB-1,15 ft.	8/10 8/10 8/10 8/10	<0.100<0.100<0.100<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
SW. of center S2 S2SB-4, 35 ft. NE. of center S2 S2SB-5, 5 ft. NE. of center S2 S2SB-5, 10 ft. NE. of center S2 S2SB-5, 15 ft. NE. of center S2 S2SB-5, 30 ft. NE. of center S2 S2SB-5, 34 ft. Sump 23 E. of center S23 S23SB-1,15 ft. Sump 23 S23SB-1,20 ft.	8/10 8/10 8/10	<0.100		<0.100	<0.300	<0.100	<10.0	<10.0	<100
S2SB-5, 5 ft. S2SB-5, 10 ft. S2SB-5, 15 ft. S2SB-5, 20 ft. S2SB-5, 30 ft. S2SB-5, 34 ft. S2SB-5, 34 ft.	8/10 8/10 8/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
S2SB-5, 5 ft. S2SB-5, 10 ft. S2SB-5, 15 ft. S2SB-5, 20 ft. S2SB-5, 30 ft. S2SB-5, 34 ft. S2SB-5, 34 ft. S2SB-1, 15 ft.	8/10 8/10 8/10	<0.100							
S2SB-5, 10 ft. S2SB-5, 15 ft. S2SB-5, 20 ft. S2SB-5, 30 ft. S2SB-5, 34 ft. S2SB-1, 15 ft. S23SB-1, 15 ft.	8/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
S2SB-5, 15 ft. S2SB-5, 20 ft. S2SB-5, 30 ft. S2SB-5, 34 ft. S2SB-1, 15 ft. S23SB-1, 15 ft.	8/10		<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
S2SB-5, 20 ft. S2SB-5, 30 ft. S2SB-5, 34 ft. S23SB-1,15 ft. S23SB-1,20 ft.	0770	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
S2SB-5, 30 ft. S2SB-5, 34 ft. 23 S23SB-1,15 ft. S23SB-1,20 ft.	8/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
S2SB-5, 34 ft. 23 S23SB-1,15 ft. S233SB-1,20 ft.	8/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
23 S23SB-1,15 ft. S23SB-1.20 ft.	8/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
S23SB-1,15 ft. S23SB-1,20 ft.									
S23SB-1,15 ft. S23SB-1,20 ft.									
S23SB-1.20 ft.	9/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
	9/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' NE. of center S23 S23SB-1,25 ft. 07/29/10	9/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
of center S23	9/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' NE. of center S23 S23SB-1,40 ft. 07/29/10	9/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
20' NE. of center S23 S23SB-1,45 ft. 07/29/10	9/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
Center sump 23 S23SB-2 15 ft 07/29/10	9/10	<0.100	0.683	0.572	3.67	4 93	36.2	47.5	4.870
S23SB-2, 20 ft.	9/10	<0.100	0.101	0.105	0.597	0.803	17.9	27.1	9.040
S23SB-2, 25 ft.	9/10	<0.100	0.247	0.18	0.968	1.40	15.5	20.9	9,500
	9/10	<0.100	0.27	0.217	1.41	1.90	25.8	51.7	9,450
S23SB-2, Center sump 23 45 5 - 46 5 ft 07/29/10	0/10	70 100	40.100	007	200	00,4	7		7
10:01	2	001.07	00.00	20.100	000:04	70.100	7.0.0	7.0.0	001

Table 3. Soil Boring Analytical Results, June-July 2010, Agave Penasco Yard Investigation.

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	Boring ID and Corrected									1
	Depth				Ethyl	Total		GRO	DRO	ТРН
	(feet below		Benzene	Toluene	Benzene	Xylenes	Total BTEX	(C6-C10)	(>C10-C28)	(418.1)
Location	land surface)	Sample Date (<10	(<10 mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(<50/mg/Kg)	(mg/Kg)	(mg/Kg)	(<100 mg/Kg)
Sump 23 (continued)	tinued)									
24' SW. of center S23 S23SB-3, 10 ft.	S23SB-3, 10 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23	S23SB-3, 15 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23	S23SB-3, 20 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23 S23SB-3, 25 ft.	S23SB-3, 25 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
24' SW. of center S23	S23SB-3, 30 ft.	07/29/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23 S23SB-4, 10 ft.	S23SB-4, 10 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23 S23SB-4, 15 ft.	S23SB-4, 15 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23 S23SB-4, 20 ft.	S23SB-4, 20 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23 S23SB-4, 25 ft.	S23SB-4, 25 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23 S23SB-4, 30 ft.	S23SB-4, 30 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23 S23SB-4, 35 ft.	S23SB-4, 35 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23 S23SB-4, 40 ft.	S23SB-4, 40 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
41' NW. of center S23	S23SB-4, 44 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
40' SE of center S23 S23SB-E 15#	C23CB_E 1E#	07/30/10	00,00	<0.100	20 100	<0.300	40.400	0.012	<10.0	2100
40' SE. of center S23	S23SB-5, 20 ft.	07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100
40' SE. of center S23		07/30/10	<0.100	<0.100	<0.100	<0.300	<0.100	<10.0	<10.0	<100

Figure 1- Vicinity Map

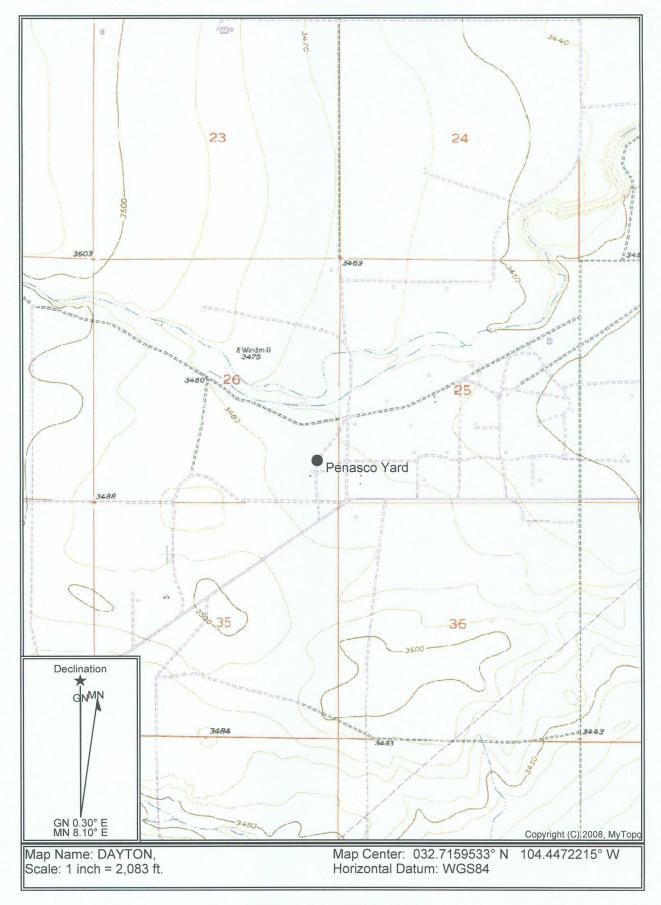
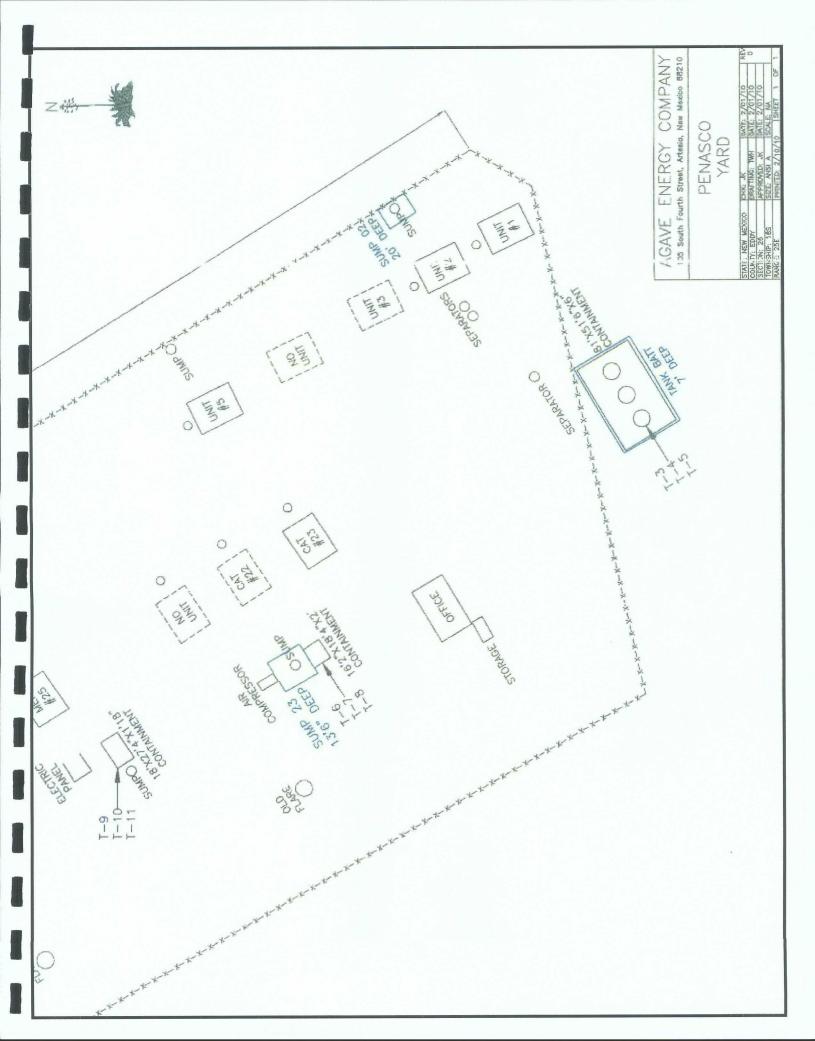


FIGURE 1: VICINITY MAP

Figure 2- Site Plan



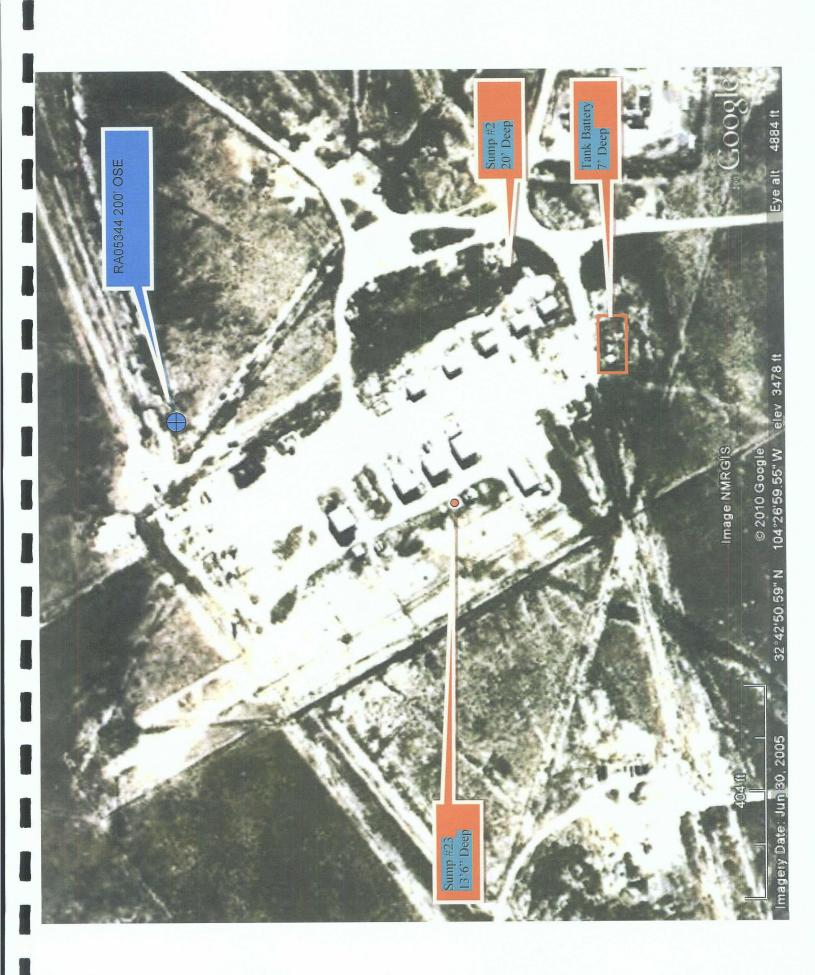


Figure 3- State Engineer Water Well Locations

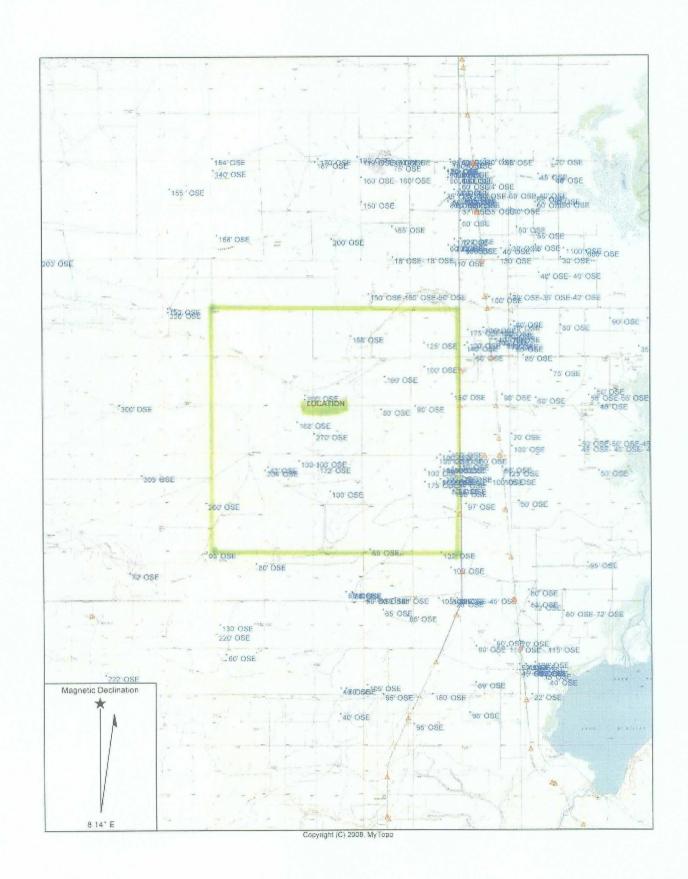
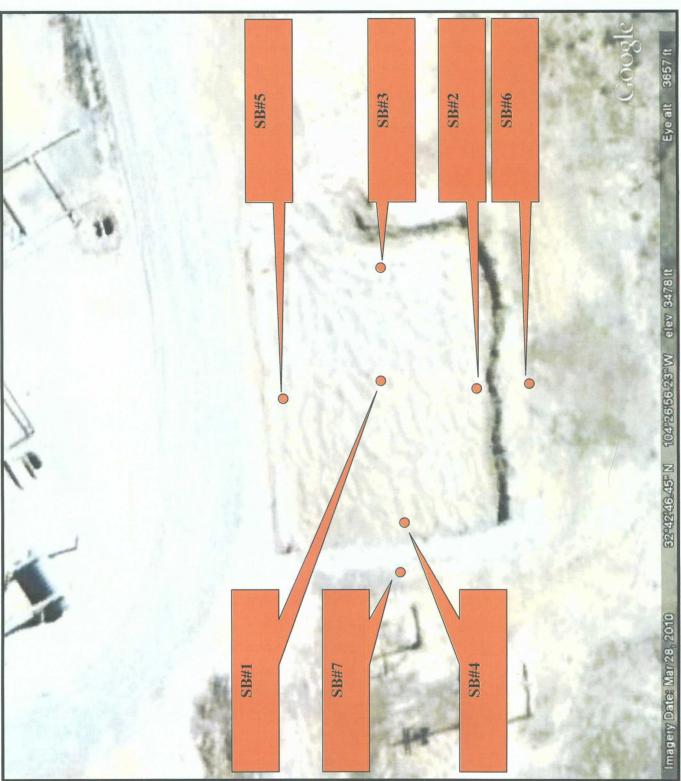
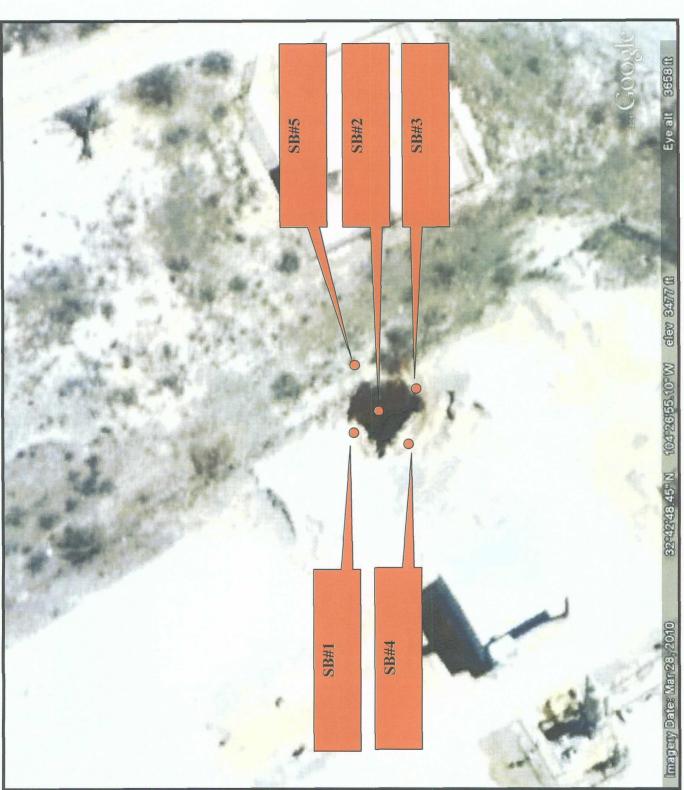


Figure 4- Location of Tank Battery Soil Borings



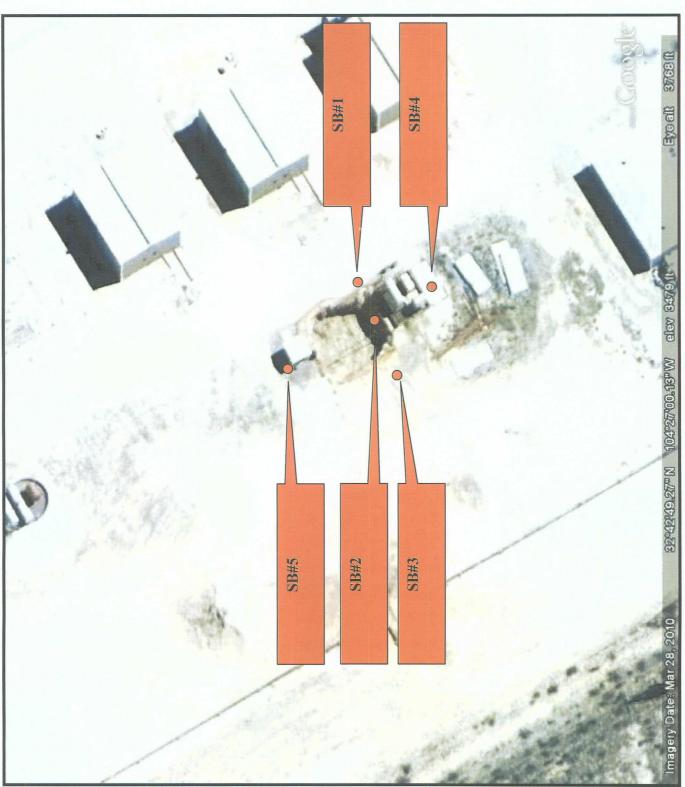
Tank Battery Soil Boring Locations

Figure 5- Location of Sump 2 Soil Borings



Sump 2 Soil Boring Locations

Figure 6- Location of Sump 23 Soil Borings



Sump 23 Soil Boring Locations

Appendix A- Copy of Laboratory Analytical Results



July 9, 2010

Bob Allen

Safety & Environmental Solutions, Inc.

703 East Clinton, #103

Hobbs, NM 88240

Re: Pencesco Yard (AGA-10-001)

Enclosed are the results of analyses for sample number H20253, received by the laboratory on 06/30/10 at 5:04 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Reene

Laboratory Director



SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240

FAX TO: (575) 393-4388

Receiving Date: 06/30/10 Reporting Date: 07/06/10

Sampling Date: 06/29/10 Sample Type: SOIL

Project Owner: AGAVE ENERGY (AGA-10-001)

Sample Condition: INTACT @ 18°C

Project Name: PENCESCO YARD Project Location: SW ARTESIA, NM Sample Received By: JH Analyzed By: ZL

ETHYL TOTAL SAMPLE ID AB NO. BENZENE TOLUENE BENZENE **XYLENES** (ma/ka) (ma/ka) (ma/kg) (ma/ka)

	(1119/119)	(****9/**9/	(9.49)	(mg/kg/
ANALYSIS DATE:	07/02/10	07/02/10	07/02/10	07/02/10
H20253-1 BSB-1 5'	<0.050	<0.050	<0.050	<0.300
H20253-2 (CENTER PIT) 10'	<0.050	<0.050	5.61	17.5
H20253-3 BSB-1 15'	1.68	5.02	24.2	87.2
H20253-4 BSB-1 20'	0.234	0.667	3.21	11,9
H20253-5 BSB-1 25'	0.134	0.132	1.05	3.69
H20253-6 BSB-1 30'	0.081	0.071	1.76	7.66
H20253-7 BSB-1 35'	0.084	<0.050	0.964	4.00
Quality Control	0.011	0.010	0.010	0.031
True Value QC	0.010	0.010	0.010	0.030
% Recovery	110	100	100	103
Relative Percent Difference	<1.0	4.8	3.7	<1.0

METHODS: BTEX - SW-846 8260

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES. Reported on wet weight.

ab Director

H20253 BTEX SESI



SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: SERGIO CONTRERAS

703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 06/30/10

Reporting Date: 07/06/10

Project Owner: AGAVE ENERGY (AGA-10-001)

Project Location: SW ARTESIA, NM

Project Name: PENCESCO YARD

Sampling Date: 06/29/10 Sample Type: SOIL

Sample Condition: INTACT @ 180C

Sample Received By: JH

Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS E	DATE:	07/02/10	07/02/10	07/02/10	07/02/10
H20253-8	BSB-2 5'	<0.050	<0.050	0.845	6.36
H20253-9	(S.S. EXCAVATION) 10'	<0.050	<0.050	0.660	3. 6 6
H20253-10	BSB-2 15'	<0.050	<0.050	0.106	0.598
H20253-11	BSB-2 20'	<0.050	<0.050	<0.050	<0.300
H20253-12	BSB-2 25'	<0.050	0.104	0.201	1.35
H20253-13	BSB-2 30'	0.156	0.326	2.30	19.0
H20253-14	BSB-2 35'	0.235	0.758	2.17	14.1
H20253-15	BSB-2 37'	<0.050	<0.050	0.128	0.788
Quality Contr	rol	0.011	0.010	0.010	0.031
True Value C	C	0.010	0.010	0.010	0.030
% Recovery		110	100	100	103
Relative Per	cent Difference	<1.0	4.8	3.7	<1.0

METHODS: BTEX - SW-846 8260

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES. Reported on wet weight.

Lab Director

H20253 BTEX SESI



SAFETY & ENVIRONMENTAL SOLUTIONS

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240

FAX TO: (575) 393-4388

Receiving Date: 06/30/10 Reporting Date: 07/06/10

Project Owner: AGAVE ENERGY (AGA-10-001)

Project Name: PENCESCO YARD

Project Location: SW ARTESIA, NM

Sampling Date: 06/29/10

Sample Type: SOIL

Sample Condition: INTACT @ 18°C

Sample Received By: JH

Analyzed By: AB

ANALYSIS D	ATE	07/03/10	07/03/10	07/01/10
H20253-1	BSB-1 5'	13.3	104	1,580
H20253-2	(CENTER PIT) 10'	305	424	1,500
H20253-3	BSB-1 15'	1,420	1,240	7,030
H20253-4	BSB-1 20'	13.0	<10.0	<100
H20253-5	BSB-1 25'	<10.0	<10.0	<100
H20253-6	BSB-1 30'	238	301	1,290
H20253-7	BSB-1 35'	60.4	11.9	332
H20253-8	BSB-2 5'	33.5	28.3	1,690
H20253-9	(S.S. EXCAVATION) 10'	47.6	10.7	<100
H20253-10	BSB-2 15'	<10.0	<10.0	<100
Quality Contr	ol	439	507	294
True Value Q	-2	500	500	300
% Recovery		87.8	101	98.0
Relative Perc	ent Difference	0.6	1.6	9.8

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; EPA 418.1 Not accredited for GRO/DRO or 418.1. Reported on wet weight.

Chemist

Date

H20253 TPH2 SESI



SAFETY & ENVIRONMENTAL SOLUTIONS

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 06/30/10

Reporting Date: 07/06/10

Project Owner: AGAVE ENERGY (AGA-10-001)

Project Name: PENCESCO YARD Project Location: SW ARTESIA, NM

Sampling Date: 06/29/10

Sample Type: SOIL

Sample Condition: INTACT @ 18°C

Sample Received By: JH

Analyzed By: AB

ANALYSIS D	ATE	07/03/10	07/03/10	07/01/10
H20253-11	BSB-2 20'	80.8	57.1	255
H20253-12	BSB-2 25'	41.0	56.2	<100
H20253-13	BSB-2 30'	479	387	1,470
H20253-14	BSB-2 35'	180	124	530
H20253-15	BSB-2 37'	33.6	71.7	163
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Quality Contro)	439	507	294
True Value Q	0000 0000000000000000000000000000000000	500	500	300
% Recovery	146/3 1 1 146/00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	87.8	101	98.0
Relative Perce	ent Difference	0.6	1.6	9.2

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; EPA 418.1 Not accredited for GRO/DRO or 418.1. Reported on wet weight.

Chemist

Date

H20253 TPH2 SESI

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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88240

	(915) 673-7001 Fax	(816) 673-7020	(915) 573-7001 Fax (815) 673-7020 (605) 393-2328 Fax (608) 393-2478	1 393-2476				Page
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Phone #: (50	Phone #: (505) 397-0510 Fax	* (505)	(505) 393-4388		Transmiss.	9		
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Phone Result Fax Result REMARKS: eter nich tiefer is breef tron my of the above thinks Received By: Received By: (Lab Shift Sampler Relinquished: Rallinguished By:

† Cardinal cannot accept verbal changes. Please fex written changes to (915) 673-7020.

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Py: (Initials)

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Sample Condition



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ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abliene, TX 79603 101 East Marfand, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (508) 393-2476

Company Name:	ACCLANACE & AUCTORS	- 13	OT THE TONIC					
Project Manager:		i	SONOTIONS					
Address: 703	'n			Company: SAME				
CHY: HOBBS	Stile:	te: NM Zh:	p: 88240	Atm: RRY				
Phone #: (505	5) 39.7-0510 Fax#:	* (505)	393-4388	Address:		<u> </u>		
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Project Name:	Tenas de Ves			State: Zlp:	TOTO TOTO TOTO TOTO TOTO TOTO TOTO TOT	/ ろ <u> </u>		
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[†] Cardinal cannot accept verbal changes, Please fax written changes to (915) 673-7020.





August 06, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 07/30/10 17:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey & Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/06/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/26/2010

Sampling Type:

Soil Sampling Condition:

Sample Received By:

** (See Notes)

Jodi Henson

Sample ID: BSB-3, 3-8' (H020482-01)

BTEX 8260B	mg,	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	, ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	89.7	% 80-120	1						
Surrogate: Toluene-d8	108 5	% 80-120	١						
Surrogate: 4-Bromofluorobenzene	114 9	% 80-120	1						
TPH 418.1	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg/	/kg	Analyze	ed By: CK			****		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	76.1	% 70-130							
Surrogate: 1-Chlorooctadecane	84.1	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Sampling Date:

07/26/2010

Reported:

08/06/2010

Soil

Project Name:

AGA-10-001

Sampling Type:

** (See Notes)

Project Number:

AGA-10-001

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: BSB-3, 13' (H020482-02)

BTEX 8260B	mg/	/kg	Analyze	d By: ZL			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Foluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
`Surrogate: Dibromofluoromethane	1199	% 80-120							
Surrogate: Toluene-d8	110 9	% 80-120)						
Surrogate: 4-Bromofluorobenzene	1169	% 80-120	l						
TPH 418.1	mg/	/kg	Analyze	d By: AB					<u>,</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg/	kg	Analyze	d By: CK			<u> </u>		<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
_GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	72.2 5	% 70-130							
Surrogate: 1-Chlorooctadecane	78.3	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones,



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/06/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/26/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-3, 18' (H020482-03)

BTEX 8260B	mg/	'kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	105 9	% 80-120							
Surrogate: Toluene-d8	113 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	116	% 80-120							
TPH 418.1	mg/	'kg	Analyze	d By: AB			-··		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	75.5	% 70-130							
Surrogate: 1-Chlorooctadecane	86.1	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.



Safety & Environmental Solutions Bob Allen 703 East Clinton

Analyzed By: ZL

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/30/2010

Reported:

BTEX 8260B

08/06/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

mg/kg

PENASCO S OF ARTESIA

Sampling Date:

07/26/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Qualifier

Sample Received By:

Jodi Henson

Sample ID: BSB-3, 23' (H020482-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
Benzene* Toluene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4
m+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6
o-Xylene	<0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3

Surrogate: Dibromofluoromethane 81.7% 80-120 Surrogate: Toluene-d8 110% 80-120 Surrogate: 4-Bromofluorobenzene 119% 80-120

TPH 418.1		mg	/kg	Analyzed By: AB						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418	3.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M Analyte		mg/kg		Analyzed By: CK						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6	-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >0	C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	

Surrogate: 1-Chlorooctane 75.4 % 70-130 Surrogate: 1-Chlorooctadecane 89.5 % 70-130

Cardinal Laboratories

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

BTEX 8260B

07/30/2010

Reported:

08/06/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

PENASCO S OF ARTESIA

mg/kg

Sampling Date:

07/26/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-3, 28' (H020482-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	89.9 %	6 80-120)						
Surrogate: Toluene-d8	111%	80-120)						
Surrogate: 4-Bromofluorobenzene	113 %	6 80-120)						
TPH 418.1	mg/l	kg	Analyze	ed By: AB					

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg/kg		Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	

Surrogate: 1-Chlorooctade 75.9 % 70-130
Surrogate: 1-Chlorooctadecane 88.4 % 70-130

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Celey D. Keine



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/06/2010

Project Name:

AGA-10-001

Project Number: Project Location: AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/26/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-3, 33' (H020482-06)

3TEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Coluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
n+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2,74	91.3	3.00	12.3	
Surrogate: Dibromojiuoromethane	99.1	% 80-120)						
Surrogate: Toluene-d8	108	% 80-120)						
Surrogate: 4-Bromofluorobenzene	114	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
отРН 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	78.6	% 70-130)						
Burrogate: 1-Chlorooctadecane	90.8	% 70-130	1						

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Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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* ARDINAL LABORATORIES, INC.

2111 Beechwood, Ablene, TX 79803, 101 East Marland, Hobbs, NM 80240

(505) 393-2326 Fax (505) 393-2476 (915) 073-7001 Fax (915) 073-7020

ANALYSIS REQUEST																	:					WOODCOOKERS OF THE PROPERTY OF		Tirres and Conditions letters (if is shirtyrd of it species new from 30 days part das it has rept of 134 for arcan from the neigned wite of involve, incl. it esset of cotellion letters afterney's letter.
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	//////////////////////////////////////	Company: SAME	MILL BRATISE	Address:	CIIV:	State; Zlp:	Plone #:	, iii	PRES. SAMPLING				ME DATE TIME	N 2004 1240					- NO. 2/1 496 X		,			his sectoral as tod, that he indicate the survers paid by the righty and reselved by Carethal Willen Do Cays rate comple medices, bus et use, or fore piposits incertable class. He
Company Name: greet	ob Alkal Boyer	Address: 703 E. CLINION, #103	M Zip; 08240	Phone #: (505) 397-0510		Project 11. 1864-18-001 Project Owner: Aga Use Gragget 18		Methoda.	FOR LAB URE ONLY	±2′′′° 2.	LAB LD. Sample LD. SKIEL	PEGG ARLIS BING VINC VINC VINC VINC VINC VINC VINC VINC	OTS OFF SOII MYN CBS CCS	124821 858-3 3-0' 61 X	2 88-3 / 6 /	2868-318	, CC 122-4302 T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X 18 20 00 00 00 00 00 00 00 00 00 00 00 00	* * * * * * * * * * * * * * * * * * *		The state of the s	from the control of t	ries, it pars, sandragen Crebain titily mastarin pebika maski kata dika mbay kadas kunda kekalah kada kada kada majim, Ji aban bekatak beni dan ang bekatana kabawat kada kada kada hamilan kada badan kilah dan bada bekata kate melajan dika upetah majim, sa ada badan bada kada dan pekatana kabawa kekina kada balika badan kada bada bada kada baranda kada kebulan.

reason bearing been on account not no that the transport and be defined with United by his profession of a straing his to day his tengens of the straing and straing and the straing and straing a Sampler Relinguished: | Dale: | Dale: |

Soptistelous land sun fees M No Addillional Fax #: Phone Result | Yes | Fax Result | O Yes | REMARKS; Appelved By: ILah Blaff Intact 100 22 Sampler, UPS - Bus - Ollier: tellvered By: (Circle One)

† Cardinal cannol accept verbal changes. Please fax willten changes to 915-070-7020



August 07, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 07/30/10 17:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010

Project Name:

AGA-10-001

Project Number: Project Location: AGA-10-001 PENASCO S OF ARTESIA Sampling Date:

07/27/2010

Sampling Type:

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-4, 10.5 (H020483-01)

BTEX 8260B	mg,	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.92	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	31.6	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	20.0	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	47.7	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	22.2	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	69.9	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	93.0	% 80-120	1						
Surrogate: Toluene-d8	104	% 80-120	1						
Surrogate: 4-Bromofluorobenzene	96.7	% 80-120)						
TPH 418.1	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	3240	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1140	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	994	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	88.6	% 70-130	1						
Surrogate: 1-Chlorooctadecane	102	% 70-130)						

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*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-4, 15.5 (H020483-02)

BTEX 8260B	mg/kg		Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.84	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	39.8	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	23.5	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	54.7	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	26.2	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	80.9	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	80.7	% 80-120)			,			

our oguic. Dier emojiuer ememune	0, 70	
Surrogate: Toluene-d8	100 %	80-120
Surrogate: 4-Bromofluorobenzene	103 %	80-120

TPH 418.1	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	3070	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg	mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	445	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	743	10.0	08/04/2010	ND	188	93.8	200	3.81	

Surrogate: 1-Chlorooctane	85.8 %	70-130
Surrogate: 1-Chlorooctadecane	94.0 %	70-130

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported: Project Name: 08/07/2010 AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Sample Received By:

Sampling Condition:

Soil ** (See Notes)

Jodi Henson

Sample ID: BSB-4, 20.5 (H020483-03)

BTEX 8260B	mg	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.67	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	28.0	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	16.6	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	55.0	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	22.9	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	77.9	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	84.2	% 80-120							
Surrogate: Toluene-d8	105	% 80-120							
Surrogate: 4-Bromofluorobenzene	106	% 80-120							
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	2870	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg	/kg	Analyze	d By: CK					•
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	306	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	619	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	84.0	% 70-130							
Surrogate: 1-Chlorooctadecane	92.6	% 70-130							

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By: Jodi Henson

Sample ID: BSB-4, 25.5 (H020483-04)

BTEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.24	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	9.87	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	16.5	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	53.5	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	15.5	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	69.0	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	81.3	% 80-120	•						
Surrogate: Toluene-d8	111	% 80-120	•						
Surrogate: 4-Bromofluorobenzene	88.3	% 80-120	•						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
∄ TPH 418.1	1620	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg	/kg	Analyze	d By: CK					
TPH 8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	440	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	351	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	75.7	% 70-130	1						
Surrogate: 1-Chlorooctadecane	87.6	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: ZL

Received:

BTEX 8260B

07/30/2010

Sampling Date:

07/27/2010

Reported:

08/07/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Name: Project Number:

AGA-10-001

ma/ka

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: BSB-4, 30.5 (H020483-05)

BIEX 820UB	mg,	/ k y	Analyze	u by: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.71	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	24.9	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	19.9	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	59.3	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	25.1	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	84.4	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	84.3	% 80-120							
Surrogate: Toluene-d8	116	% 80-120							
Surrogate: 4-Bromofluorobenzene	109	% 80-120							
TPH 418.1	mg,	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	2740	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	608	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	570	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	89.1	% 70-130							
Surrogate: 1-Chlorooctadecane	96.1	% 70-130							

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-4, 35.5 (H020483-06)

BTEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.278	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	7.05	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	7.40	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	36.0	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	12.0	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	48.0	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	109	% 80-120							
Surrogate: Toluene-d8	120	% 80-120	1						
Surrogate: 4-Bromofluorobenzene	95.4	% 80-120	1						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	1430	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg	/kg	Analyze	d By: CK					
ТРН 418.1 ТРН 8015М Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	295	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	388	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	85.7	% 70-130	ı						
Surrogate: 1-Chlorooctadecane	87.7	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010 AGA-10-001

Project Name: Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-4, 40.5 (H020483-07)

BTEX 8260B	mg/	'kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/07/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/07/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	91.3	% 80-120							
Surrogate: Toluene-d8	93.0	% 80-120							ı
Surrogate: 4-Bromofluorobenzene	91.8	% 80-120							
TPH 418.1	mg/	'kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	80.0	% 70-130							
Surrogate: 1-Chlorooctadecane	90.6	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-4, 45.5 (H020483-08)

BTEX 8260B	mg/l	kg	Analyze	d By: ZL					
l Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.100	0.100	08/07/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/07/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/07/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0,300	08/07/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	93.2 %	6 80-120)						
Surrogate: Toluene-d8	96.6 %	% 80-120							
Surrogate: 4-Bromofluorobenzene	90.4 %	6 80-120)						
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
 TPH 418.1	<100	100	08/04/2010	ND	1050	102	1020	1.51	
TPH 8015M	mg/	kg	Analyze	d By: CK					
TPH 418.1 TPH 8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	72.2 %	6 70-130]						
Surrogate: 1-Chlorooctadecane	81.5 %	6 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Section 2

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A. 40 E.

**(17)

The state of the s

To Marie V.

Sec. Sec.

Sugar A

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Control Control

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliene, TX 79603. 101 East Marland, Hobbs, NM 60240

(500) 393-2326 Fax (505) 393-2476 (9.15) 6.73-70.01 Fax (9.15) 6.73-70.20

ANALYSIS REQUEST														The control of the co	Parameter (The Control of Control	Control of the Contro	The second secon	The state of the s	The Company of the Co			Tring and Conditions better til be charged on at asserts more from 28 days part does better not all the rate of 50 days part of 50 declions, including allowed by the second of the colorest of 50 declions, including allowed by the second of	X Ho Additional Fax #:	CONTRACT BOLL S. C. X.		Deptho below 1612 rangers.
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STS.	ole Nikon/ B. Boyer	CLINION, #103	3.21p: 88240	397-0510	1913-4388	Project Owner. May US Grand)	of nettons.	NATRIX.	· 333	FEW!	RASIGONTA ATMOO ROUNC RASTEM ONL			RKR-4/26.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.00 to 50.00 to 50.	1858-4-355 KILLY	1258-4,40.5 GL	1858-4, 45.0% Q i - X		kters in 1821 for then had demand to conduct histily and cheef sections are and that ablengthen the beard for 1821 for the other bedactor from the necknown and any other every spatiations that is characterized out in mach findill 1821 for even that Cardwille falls for locked in company in demance, bedactor which findillay, bushen island	Sampler Relinguished: Sampler Relinguished: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date:		U J Received By: (Lab	Time:
Company Name:	Project Manager:	Address: 703 13.	CIFY: HOBBS	Phoma #: (505)	Fax#: (505)	Projectin: A GA	Project Name:	Project Location:	FOR LAB URE OILY		LAB LD		297774			3	CONTRACTOR OF THE PROPERTY OF		The state of the s	Ø	Opposition and the second process of the sec	ALCAR BOTH BIRTH IN DIM HOLLAND FOR BILLIANS	Sampler Reinquisting		Relinquished By:	

f Cardinal cannot accept verbal changes. Please inx willten chandes 19 pg 5-073-7020.

Sampler - UPS - Bus - Officer Delivered By: (Circle One)



August 06, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 07/30/10 17:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 07/30/2010

08/06/2010

Project Name:

AGA-10-001

Project Number: Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Sampling Condition:

Soil
** (See Notes)

. 3 - d: 11 - - - -

Sample Received By: J

Jodi Henson

Sample ID: BSB-5, 10.5 (H020484-01)

BTEX 8260B	mg/	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	<0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	93.4	% 80-120							
Surrogate: Toluene-d8	104 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	107 9	% 80-120	¥.						
TPH 418.1	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	580	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg/	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	72.9	% 70-130							
Surrogate: 1-Chlorooctadecane	85.0	% 70-130							

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Applyand By 71

Received:

07/30/2010

Reported:

08/06/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-5, 20.5 (H020484-02)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	0.258	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	0.840	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	0.270	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Fotal Xylenes*	1.11	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	104	% 80-120)						
Surrogate: Toluene-d8	100	% 80-120)						
Surrogate: 4-Bromofluorobenzene	107	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	78.6	% 70-130)						
Surrogate: 1-Chlorooctadecane	85.7	% 70-130)						

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any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such sons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/30/2010

Reported:

08/06/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-5, 25.5 (H020484-03)

BTEX 8260B	mg,	kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	1.32	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	0.639	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	1.96	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	96.1	% 80-120			-				
Surrogate: Toluene-d8	115	% 80-120							
Surrogate: 4-Bromofluorobenzene	108	% 80-120							
TPH 418.1	mg,	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	185	92.4	200	4.17	,
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	188	93.8	200	3.81	
Surrogate: 1-Chlorooctane	74.8	% 70-130							
Surrogate: 1-Chlorooctadecane	82.7	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/06/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-5, 30.5 (H020484-04)

ВТЕХ 8260В	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/03/2010	ND	0.862	86.2	1.00	9.57	
Toluene*	<0.100	0.100	08/03/2010	ND	0.853	85.3	1.00	11.9	
Ethylbenzene*	<0.100	0.100	08/03/2010	ND	0.921	92.1	1.00	11.4	
m+p - Xylene	<0.200	0.200	08/03/2010	ND	1.85	92.6	2.00	12.6	
o-Xylene	< 0.100	0.100	08/03/2010	ND	0.889	88.9	1.00	11.8	
Total Xylenes*	<0.300	0.300	08/03/2010	ND	2.74	91.3	3.00	12.3	
Surrogate: Dibromofluoromethane	89.7	% 80-120	·						
Surrogate: Toluene-d8	116	% 80-120	1						
Surrogate: 4-Bromofluorobenzene	110	% 80-120	l						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1070	105	1020	0.858	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/04/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	65.5	% 70-130							
Surrogate: 1-Chlorooctadecane	62.6	% 70-130	1						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

OM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Spiritual Chamber

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ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79803. 101 East Marland, Hobbs, NM 86240

(915) 973-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

ANALYSIS REQUEST															The state of the s	The second secon	THE CONTRACT OF THE CONTRACT O	Terminology (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (200	Volentialistics and the second	The contract of the contract o			Trims and Conditional learini will be charged on at account new bus. 20 drys part dar al the rise of LLN par annual could designed the eleander, and at coil of colastions, including allowing's tess.
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	of Allen By Boyar	Addiess: 703 E. CLINIUM, #103	M 21p: 88240	\$		Project Owner: May U. E. Grayph	5	Project Location: South of Artista	THE LANGE TO SECURITY AND ASSESSMENT OF THE PROPERTY OF THE PROPERTY ASSESSMENT OF THE PROPERTY ASSESSMENT OF THE PR	55 FE1		SETILE COIF SOIF MYSL CSON		2 RAS 20.5 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	3 RSA-StartS	X 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		to demand the second se	tion by the control of the control o	War in the control of			i Erst 1955, Unity og Bongen, Ordnis indig og ettet vidsky inned for dig olden detted aktived af bet, halde indedlig he imose geldy he der de the Segion, 18 oldes bokstog Bons for endgenes ind iny older ender vid te de sender breiten in milita makende for de skille for ender ing obrekellen of the sed one for ender in the companied danses, beking been been de sed instantion of the books of the besteen besteen in the bety der the debild of the sed o
Company Hame: Srg7	Project Manager.	Addiess: 703	Cily: IKOBBS	Phone #: (505) 397-0510	Fax#: (505) 393-4380	Profession A Col	Project Range:	Project Location:	FOR CAB USE OWY		LABILD			·	***************************************	3			00.000000000000000000000000000000000000		Ţ	- AND CONTRACTOR OF THE CONTRA	A CAT LOTE UNDER THE SALES BOOKING BOO

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Fax Result 17 Yes
REMANI(S: Received By: (Labistail) 同じの含 Time: Dale: Dallyered By: (Circle One) Relinguished By:

† Cardinal cannot accept verbal changes. Please lax willten changes to by 173-7020,

Sampler - UPS - Bus - Other



August 10, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-6, 10' (H020513-01)

BTEX 8260B	mg,	'kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	114	% 80-120							
Surrogate: Toluene-d8	104	% 80-120							
Surrogate: 4-Bromofluorobenzene	116	% 80-120							
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg,	'kg	Analyze	d By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/08/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	86.9	% 70-130							
Surrogate: 1-Chlorooctadecane	103	% 70-130							

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-6, 15' (H020513-02)

STEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
oluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
otal Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	102	% 80-120	1						
Surrogate: Toluene-d8	107	% 80-120	•						
Surrogate: 4-Bromofluorobenzene	117	% 80-120	•						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
FPH 8015M Analyte	mg	/kg	Analyze	d By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/08/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	86.6	% 70-130							
Surrogate: 1-Chlorooctadecane	98.2	% 70-130							

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Safety & Environmental Solutions **Bob Allen** 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 08/02/2010

08/10/2010

Project Name:

AGA-10-001

Project Number: Project Location: AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-6, 20' (H020513-03)

BTEX 8260B	mg/	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	< 0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	97.3	% 80-120	1						
Surrogate: Toluene-d8	109 9	% 80-120	1						
Surrogate: 4-Bromofluorobenzene	116 9	% 80-120	1						
TPH 418.1	mg/	'kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg/	'kg	Analyze	ed By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/08/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	88.4	% 70-130	ı						
Surrogate: 1-Chlorooctadecane	101 9	% 70-130	i						

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*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: Reported: 08/02/2010

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-6, 25' (H020513-04)

Bampie r	υ.
BTEX 8260	3

mg/	k
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Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	< 0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	103 9	% 80-120							
Surrogate: Toluene-d8	104	% 80-120							
Surrogate: 4-Bromofluorobenzene	117	% 80-120							
TPH 418.1	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg/	/kg	Analyze	d By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/08/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	82.5	% 70-130							
Surrogate: 1-Chlorooctadecane	95.8	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: Reported: 08/02/2010

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-6, 30' (H020513-05)

BTEX 8260B	mg/	/kg	Anaiyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	106	% 80-120							
Surrogate: Toluene-d8	104	% 80-120							
Surrogate: 4-Bromofluorobenzene	116	% 80-120							
TPH 418.1	mg/	'kg	Analyze	ed By: AB			··-		
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg/	/kg	Analyze	d By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/08/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	88.3	% 70-130							
Surrogate: 1-Chlorooctadecane	101 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

D Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10.00

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1 mg 2

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-247

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Received By: [Lab Blaff]

† Cardinal cannot accept verbal changes. Please fax willen changes 10016-073-7020.



August 10, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001 PENASCO S OF ARTESIA

Ameliand Day 71

Sampling Date: Sampling Type: 07/28/2010

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-7, 10' (H020514-01)

BTEX 8260B	mg/	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	115	% 80-120	<u> </u>						
Surrogate: Toluene-d8	89.5	% 80-120	ı						
Surrogate: 4-Bromofluorobenzene	115 9	% 80-120	ı						
TPH 418.1	mg/	/kg	Analyze	ed By: AB					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	90.5	% 70-130							
Surrogate: 1-Chlorooctadecane	105 9	% 70-130	J						

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

08/10/2010

Reported: Project Name:

AGA-10-001

Project Number: Project Location: AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BSB-7, 15' (H020514-02)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromojiuoromethane	105	% 80-120	l						
Surrogate: Toluene-d8	104	% 80-120	ı						
Surrogate: 4-Bromofluorobenzene	116	% 80-120							
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	/kg	Analyze	đ By: AB					
TPH 8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	11.1	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	87.6	% 70-130							
Surrogate: 1-Chlorooctadecane	87.9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Reported:

BTEX 8260B

08/10/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

mg/kg

Project Location:

Anaivte

GRO C6-C10

DRO >C10-C28

PENASCO S OF ARTESIA

Reporting Limit

10.0

10.0

Sampling Date:

BS

169

166

Method Blank

ND

ND

% Recovery

84.6

83.1

True Value QC

200

200

RPD

1.17

0.818

07/28/2010

Sampling Type:

Sample Received By:

Sampling Condition:

Soil ** (See Notes)

Jodi Henson

Sample ID: BSB-7, 20' (H020514-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	99.6	% 80-120							
Surrogate: Toluene-d8	106 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	112 9	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	'kg	Analyze	d By: AB					

Analyzed By: ZL

Analyzed

08/07/2010

08/07/2010

Surrogate: 1-Chlorooctane 83.0 % 70-130 90.0 % 70-130 Surrogate: 1-Chlorooctadecane

Result

<10.0

<10.0

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Sampling Date:

07/28/2010

Reported:

08/10/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: BSB-7, 33' (H020514-04)

ВТЕХ 8260В	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Foluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	115	% 80-120)						
Surrogate: Toluene-d8	104	% 80-120)						
Gurrogate: 4-Bromofluorobenzene	118	% 80-120)						
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg,	/kg	Analyze	d By: AB		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	83.8	% 70-130)						
Surrogate: 1-Chlorooctadecane	102	% 70-130)						

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: BSB-7, 35' (H020514-05)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	114	% 80-120							
Surrogate: Toluene-d8	104	% 80-120	1						
Surrogate: 4-Bromofluorobenzene	117	% 80-120	1						
TPH 418.1	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	86.8	% 70-130							
Surrogate: 1-Chlorooctadecane	104	% 70-130	l						

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Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

108 %

70-130

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By: Jodi Henson

Sample ID: BSB-7, 40' (H020514-06)

BTEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	
o-Xylene	< 0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	
otal Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	
Surrogate: Dibromofluoromethane	97.2	% 80-120)						
🔂urrogate: Toluene-d8	93.0	% 80-120)						
Surrogate: 4-Bromofluorobenzene	108	% 80-120)						
TPH 418.1	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	90.9	% 70-130)						

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: 71

Received:

RTEY 8260B

08/02/2010

Sampling Date:

07/29/2010

Reported:

08/10/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

ma/ka

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: BSB-7, 45' (H020514-07)

BTEX 8260B	mg/	kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	1.06	106	1.00	2.18	1
Toluene*	<0.100	0.100	08/07/2010	ND	0.936	93.6	1.00	5.49	1
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	2.49	1
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.15	108	2.00	4.58	١
o-Xylene	<0.100	0.100	08/07/2010	ND	1.10	110	1.00	4.86	•
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.25	108	3.00	4.68	•
Surrogate: Dibromofluoromethane	102 9	% 80-120							
Surrogate: Toluene-d8	93.0	% 80-120							1
Surrogate: 4-Bromofluorobenzene	108 5	% 80-120							
TPH 418.1	mg/	/kg	Analyze	ed By: AB	·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	•
TPH 8015M	mg/	/kg	Analyze	ed By: AB				· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	,
Surrogate: 1-Chlorooctane	84.4	% 70-130							
Surrogate: 1-Chlorooctadecane	104 9	% 70-130							

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Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit

Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 80240

A. 2. A.

7

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	Sample Condition CHECKED BY:	Delivered By Carcle One
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	ON OUTO Received By: (Lab Staff)	Relinguished Dy:
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D Yes W NO Additional Fax #:	Sampler Relinquisited: Phone Result U Yes	Sampler Relinquished:
	courses by Cristical, respecte to a sheller such clientle besed spoot off of the shows stated resecut	salifier a maconian while god of a felicitation by participate of materials.
Term und conditions learne after being dan it researe acce, but, find of the applicable ————————————————————————————————————	T.E.A.S. HOTE, UNING and Omnoga. Cardodi Allify and dust's wellaja-senad jed aty data, athley welfar bradfo political or tod, bast be inflicted by a mosad politic from the list. In the cardon of the	TEE, ET HOTE, Unitry and Osmopa Castori Fillipy and dust's wells content. It ships because these to perfequence any object instantish des teams in some other backgrounds and the backgrounds designed the
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) つ	11 Flog De Grappy Slate: ZID:	Project II: 1 6A - 10 - COI Project Owners
	City;	Fax #: (505) 393_43BB
	Addross:	Phone #: (505) 397-0510
;	n: 68240 Allin: BRandi	City: HORBS State: NM ZIp:
	Company: SAME	Address: 703 E. CLINION, 1/103
	Boyex MILLINO PO#:	Project Manager: Bola Allom / B
TSTUGIN SISYLANA		Company Name: SEST
Page	(915) 073-7020 (505) 393-2326 Fax (505) 393-2476	(915) 0/3-7001 Fax (915) 0/3-7020

Cardinal cannol accept verbal changes. Please tax willten changes 10,05-073-7020.



August 07, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 07/30/10 17:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Analyzed By: ZL

Fax To: (575) 393-4388

Received:

BTEX 8260B

07/30/2010

Sampling Date:

07/27/2010

Reported:

08/07/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

mg/kg

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S2SB-1, 5' (H020485-01)

	3,	3							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/07/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/07/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	2.93	97.5	3.00	11.9	,
Surrogate: Dibromofluoromethane	80.1	% 80-120							
Surrogate: Toluene-d8	94.4	% 80-120							
Surrogate: 4-Bromofluorobenzene	80.3	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	64.0	% 70-130							
Surrogate: 1-Chlorooctadecane	53.5	% 70-130							

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010

Project Name: Project Number:

AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

2.93

97.5

Soil

3,00

11.9

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-1, 10 (H020485-02)

BTEX 8260B	MUZU485-UZ) mg/	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
3enzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	0.255	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	< 0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	

ND

08/04/2010

Surrogate: Dibromofluoromethane

87.1 %

< 0.300

80-120

Surrogate: Toluene-d8

Total Xylenes*

111%

80-120

Surrogate: 4-Bromofluorobenzene

103 % 80-120

0.300

_	ГРН 418.1	mg,	/kg	Analyze	d By: AB					
1	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	ΓPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
1	ГРН 8015М	mg/	/kg	Analyze	d By: CK					S-04
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<u> </u>	GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
	GRO C6-C10 DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	

Surrogate: 1-Chlorooctane

62.8 %

70-130

Surrogate: 1-Chlorooctadecane

66.1 %

70-130

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 07/30/2010

08/07/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

AGA-10-001

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

PENASCO S OF ARTESIA

Sample ID: S2SB-1, 20 (H020485-03)

BTEX 8260B	mg/	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	,
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/04/2010	ND	2.93	97.5	3.00	11.9	1
Surrogate: Dibromofluoromethane	87.6	% 80-120							
Surrogate: Toluene-d8	107 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	109 9	% 80-120							
TPH 418.1	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg/	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	70.7	% 70-130							
Surrogate: 1-Chlorooctadecane	77.7	% 70-130							

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/30/2010

Reported:

08/07/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-1, 30 (H020485-04)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Benzene* Toluene*	< 0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
n+p - Xylene	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/04/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	98.2	% 80-120)						
Surrogate: Toluene-d8	113	% 80-120)						
Surrogate: 4-Bromofluorobenzene	III	% 80-120	ı						
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg,	/kg	Analyze	d By: CK		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	72.5	% 70-130					·		
Surrogate: 1-Chlorooctadecane	70.1	% 70-130	•						

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/30/2010

Reported:

BTEX 8260B

Total Xylenes*

08/07/2010

Project Name: Project Number: AGA-10-001

mg/kg

< 0.300

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

0.300

Sampling Date:

07/27/2010

Sampling Type:

2.93

97.5

Soil

3.00

11.9

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-1, 35 (H020485-05)

									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	

08/04/2010

Analyzed By: ZL

Surrogate: Dibromofluoromethane 84.5 % 80-120 Surrogate: Toluene-d8 117% 80-120 Surrogate: 4-Bromofluorobenzene 100 % 80-120

TPH 418.1	mg,	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	!
TPH 8015M	mg,	/kg	Analyze	ed By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	

ND

Surrogate: 1-Chlorooctane 69.9% 70-130 Surrogate: 1-Chlorooctadecane 71.7% 70-130

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 07/30/2010

08/07/2010

Project Name:

AGA-10-001

Project Number: Project Location: AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-1, 40 (H020485-06)

8TEX 8260B	mg,	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	
otal Xylenes*	<0.300	0.300	08/04/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	83.4	% 80-120)						
Surrogate: Toluene-d8	116	% 80-120	•						
Surrogate: 4-Bromofluorobenzene	106	% 80-120							
TPH 418.1	mg,	/kg	Analyze	ed By: AB		ž			· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg,	/kg	Analyze	d By: CK			,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	71.1	% 70-130						-	
Surrogate: 1-Chlorooctadecane	82.1	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

DTEV 00.000

07/30/2010

Reported:

08/07/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Soil

Sampling Type: Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-1, 25 (H020485-07)

BTEX 8260B	mg/	kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/04/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	82.8	% 80-120							
Surrogate: Toluene-d8	1169	% 80-120							
Surrogate: 4-Bromofluorobenzene	109 9	% 80-120							
TPH 418.1	mg/	kg	Analyze	ed By: AB					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg/	kg	Analyze	ed By: CK					= .
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	76.75	% 70-130							,
Surrogate: 1-Chlorooctadecane	81.45	% 70-130							

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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			Alm: BRandi	Slate: NM Zip: 88240 Alm:	Oly: HOBBS
	***************************************		Company: SAME	CLINION, $\#103$ $\qquad \qquad	Address: 703 E. C
		······································	11.11.0 PO #:	Bob Albon/ B. Boyer	Project Manager:
ANALYSIS REQUEST		1	AMERICAN AND ANGELORISATION OF THE PROPERTY OF		Company Hame: SRST
1	Andreas () Andreas ((505) 393-2326 Fax (505) 393-2476	1	
			101 East Marland, Hobbs, NM 00240	2111 Beechwood, Abliene, TX 79603 101 East M	2
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| Dajd: | Received By: Delivered By: [Circle One] Bus - Other: Dalet Time: ? Received By: Received By: [Lab Sigil] ample Condillon CHECKED BY Kan iii REMARKS: Fax Result: emoughours Rob & Susane Yes D 140 Additional Fax #:

Cardinal cannot accept verbal changes. Please the written changes to 175 173-7020.



August 06, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 07/30/10 17:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/30/2010

Reported:

08/06/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

67.3 %

70-130

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-2, 20' (H020486-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/04/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	112	% 80-120)						
Surrogate: Toluene-d8	116	% 80-120)						
Surrogate: 4-Bromofluorobenzene	114	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	855	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	65.2	% 70-130)						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 07/30/2010

08/06/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-2, 25' (H020486-02)

Sample 1D: 525B-2, 25 (HUZ	mg/	kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	< 0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
n+p - Xylene 	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/04/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	108 %	80-120							
Surrogate: Toluene-d8	116 %	% 80-120)						
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	113 %	% 80-120)						
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TPH 418.1	182	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	74.1 9	% 70-130	1						
Surrogate: 1-Chlorooctadecane	65.6 9	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

(575) 393-4388 Fax To:

Received:

07/30/2010

Sampling Date:

07/27/2010

Reported:

08/06/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S2SB-2, 30' (H020486-03)

BTEX 8260B	mg/	'kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/04/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/04/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/04/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/04/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/04/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/04/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	1199	% 80-120							
Surrogate: Toluene-d8	1189	% 80-120							
Surrogate: 4-Bromofluorobenzene	1129	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	357	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	55.2	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: 1-Chlorooctane	77.3 9	% 70-130							
Surrogate: 1-Chlorooctadecane	78.5 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/30/2010

Reported:

08/06/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/27/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-2, 40' (H020486-04)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Benzene* Toluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes* Surrogate: Dibromofluoromethane	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	84.7	% 80-120)						
Surrogate: Toluene-d8	106	% 80-120)						
Surrogate: 4-Bromofluorobenzene	106	% 80-120)						
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg	/kg	Analyze	d By: CK					
TPH 8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	197	98.4	200	4.11	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	171	85.5	200	11.3	
Surrogate: L-Chloroctane	78 4	% 70-130	}						

Surrogate: 1-Chlorooctane 78.4 % 70-130 'urrogate: 1-Chlorooctadecane 76.4 % 70-130

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

Samples not received at proper temperature of 6°C or below.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 68240 (815) 673-7001 Fax (815) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: S	SEST		,			ANALYSIS REC	REQUEST		
Project Manager:	Bob Alten/B. Boc	(ch	11.17.17.0 PO #:		,				
Address: 703 E.	Address: 703 E. CLINTON, #103	All Maria and All States and All Sta	Company: SAME	7					
CILY: HOBBS	State: AM 24p: 00240	9	MIN: RRETISE	en an	***************************************		***************************************		
Phone #: (505) 397-0510	397-0510		Aldress:	75,/2007////	······································				***************************************
Fax# (505) 3	793-4788		cliy:		<u>.</u>				
* 43 W in toaloud	Project 11. A 6-4 - 10-001 Project Owner: Agg U. Longy		State: ZIp:		Q		·		****
Project Name:	Den Rich J	Ş	Phone #:		9			***************************************	
Project Location:	South of ARTERIA			8	\(\frac{1}{2}\)		*****************		
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4	Time:		Condon	•				٠	
Delivered By: (Circle One	Icole One)	() Sample Condillon	CHECKED BY:	•					Nagarandahan

| Cardinal cannol accept verbal changes. Please fax willen all pas 10 115-073-7020.

Sampler - UPS - Bus - Other:



August 09, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 08/02/2010

08/09/2010 AGA-10-001

Project Name: Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Jodi Henson

Sample Received By:

Sample ID: S2SB-3, 10' (H020508-01)

BTEX 8260B	mg/	kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	83.8	% 80-120							
Surrogate: Toluene-d8	100 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	92.3	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	87.6	% 70-130							
Surrogate: 1-Chlorooctadecane	103 9	% 70-130							

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-3, 15' (H020508-02)

Sample ID. 32.	3D-3, 13	(11020300	U
BTEX 8260B			m

BTEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Benzene* Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	< 0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	< 0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	88.4	% 80-120)						
Surrogate: Toluene-d8	88.4	% 80-120)						
Surrogate: Toluene-d8	92.5	% 80-120)						
трн 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	d By: AB					
TPH 8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
_GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	93.6	% 70-130)						
Surrogate: 1-Chlorooctadecane	111	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: ZL

Received:

BTEX 8260B

08/02/2010

Sampling Date:

07/28/2010

Reported:

08/09/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

mg/kg

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S2SB-3, 20' (H020508-03)

DIEX 0200B	11197	N9	Analyze	CG Dy. LL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	1
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	1
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	,
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	101 9	% 80-120							
Surrogate: Toluene-d8	93.9	% 80-120							
Surrogate: 4-Bromofluorobenzene	91.13	% 80-120							
TPH 418.1	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	97.5 9	% 70-130							
Surrogate: 1-Chlorooctadecane	115 %	% 70-130							

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

103 %

70-130

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By:

** (See Notes) Jodi Henson

Sample ID: S2SB-3, 32' (H020508-04)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3enzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	< 0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	104	% 80-120	1						
Surrogate: Toluene-d8	95.5	% 80-120	1						
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	95.5	% 80-120	ı						
TPH 418.1	mg	/kg	Analyze	d By: AB					. ,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	84.2	% 70-130							

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urrogate: 1-Chlorooctadecane

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 80240

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Email Book Susang Resulls

Received By: (Lab Staff)

01/21/2/C

Relinguished By:

2

† Cardinal cannot accept verbal changes. Please lax willter fairings to 015-073-7020.

(Intitials)

Sample Condition

Sampler ups . Bus - Other:

Chole One

Delivered Egr.



August 09, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-4, 15' (H020509-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL		,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	ļ
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	,
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	+
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	1
Surrogate: Dibromofluoromethane	102	% 80-120							
Surrogate: Toluene-d8	91.9	% 80-120							1
Surrogate: 4-Bromofluorobenzene	93.3	% 80-120							
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	!
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	79.4	% 70-130							
Surrogate: 1-Chlorooctadecane	87.7	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: Reported: 08/02/2010

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-4, 20' (H020509-02)

ВТЕХ 8260В	mg/	kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Foluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ИD	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	104 9	% 80-120						<u> </u>	
Surrogate: Toluene-d8	98.8	% 80-120							
Surrogate: 4-Bromofluorobenzene	94.5	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	82.1	% 70-130	1						
Surrogate: 1-Chlorooctadecane	92.9	% 70-130							

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Celeyt

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-4, 25' (H020509-03)

BTEX 8260B	mg/	kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	109 %	% 80-120							
Surrogate: Toluene-d8	96.3	% 80-120							
Surrogate: 4-Bromofluorobenzene	94.9 9	% 80-120							
TPH 418.1	mg/	'kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	'kg	Analyze	ed By: AB					<i>(-</i>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	93.8 9	% 70-130							
Surrogate: 1-Chlorooctadecane	112 %	% 70-130							

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Reported: Project Name: 08/09/2010 AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-4, 35' (H020509-04)

ВТЕХ 8260В	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Foluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Builoguie. Diolomojiuoi omemune	110	% 80-120							
Surrogate: Toluene-d8	102	% 80-120	I						
Surrogate: 4-Bromofluorobenzene	92.5	% 80-120	1						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	83.8	% 70-130							
Surrogate: 1-Chlorooctadecane	102	% 70-130	1						

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001 PENASCO S OF ARTESIA Sampling Date:

07/28/2010

Sampling Type:

Sampling Condition:

Soil ** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-4, 10' (H020509-05)

BTEX 8260B	mg,	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	106	% 80-120							
Surrogate: Toluene-d8	97.4	% 80-120							
Surrogate: 4-Bromofluorobenzene	98.1	% 80-120							1
TPH 418.1	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	937	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	'kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	64.5	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	83.0	% 70-130							
Surrogate: 1-Chlorooctadecane	72.2	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
2111 Beschwood, Abliene, TX 79603. 101 East Marland, Hobbs, NM 88240

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17 May

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(915) 073-7001 Fax (915) 073-7020 (505) 393-2320 Fax (505) 393-2476

Company Name: 5					ANALYSIS REQUEST	,
Project Manager:	ROL ALLANTA	18540A	10111111110 PO #:		and the superpose of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement of statement	
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August 10, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey & Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-5, 5' (H020512-01)

BTEX 8260B	mg,	/kg	Analyz€	ed By: ZL				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/07/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	95.8	% 80-120)					_	
Surrogate: Toluene-d8	96.6	% 80-120	1						
Surrogate: 4-Bromofluorobenzene	96.7	% 80-120	1						ı
TPH 418.1	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg,	/kg	Analyze	ed By: AB					QM-05, S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	83.2	% 70-130	1						
Surrogate: 1-Chlorooctadecane	69.9	% 70-130	1	•					

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-5, 10' (H020512-02)

3TEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.910	91.0	1.00	16.2	
oluene*	<0.100	0.100	08/07/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.946	94.6	1.00	1.64	
n+p - Xylene	<0.200	0.200	08/07/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	92.3	% 80-120	<u> </u>						
Surrogate: Toluene-d8	89.0	% 80-120	•						
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	88.5	% 80-120	1						
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg,	/kg	Analyze	d By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	89.6	% 70-130)						
Surrogate: 1-Chlorooctadecane	93.0	% 70-130)						

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S2SB-5, 15' (H020512-03)

BTEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/07/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	104	% 80-120	l	,					
Surrogate: Toluene-d8	87.8	% 80-120							
Surrogate: 4-Bromofluorobenzene	89.7	% 80-120							
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg	/kg	Analyze	d By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	81.4	% 70-130							
Surrogate: 1-Chlorooctadecane	83.1	% 70-130							

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Fax To:

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Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

101%

70-130

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-5, 20' (H020512-04)

BTEX 8260B	mg	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.910	91.0	1.00	16.2	
Foluene*	<0.100	0.100	08/07/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.04	102	2.00	2.98	
o-Xylene	< 0.100	0.100	08/07/2010	ND	1.03	103	1.00	1.44	
otal Xylenes*	<0.300	0.300	08/07/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	110	% 80-120)						
Surrogate: Toluene-d8	99.5	% 80-120)						
Surrogate: 4-Bromofluorobenzene	99.6	% 80-120)						
TPH 418.1	mg,	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg,	/kg	Analyze	ed By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	85.7	% 70-130)						

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rrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 08/02/2010

08/10/2010

Project Name: Project Number:

AGA-10-001 AGA-10-001

Project Location:

7.G/(10 001

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-5, 30' (H020512-05)

BTEX 8260B	mg/	mg/kg Analyzed By: ZL							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/07/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.04	102	2.00	2.98	•
o-Xylene	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	1.44	+
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.06	102	3.00	2.46	,
Surrogate: Dibronofluoromethane	101 9	% 80-120							
Surrogate: Toluene-d8	103 9	% 80-120							1
Surrogate: 4-Bromofluorobenzene	96.6	% 80-120							:
TPH 418.1	mg/	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg/	kg	Analyze	ed By: AB					QM-05
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0 10.0		08/08/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/08/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	86.0	% 70-130							
Surrogate: 1-Chlorooctadecane	99.1	% 70-130							

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/28/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S2SB-5, 34' (H020512-06)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.910	91.0	1.00	16.2	
Foluene*	<0.100	0.100	08/07/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200 0.200		08/07/2010	ND	2.04	102	2.00	2.98	
	<0.100 0.100		08/07/2010	ND	1.03	103	1.00	1.44	
o-Xylene Total Xylenes* Surragate: Dibromofluoromethane	<0.300	0.300	08/07/2010	ND	3.06	102	3.00	2.46	
E Surrogate: Dibromofluoromethane	107	% 80-120							
Surrogate: Toluene-d8	102	% 80-120							
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	98.7	% 80-120							
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100 100		08/06/2010	ND	971	95.2	1020	2.18	
TPH 8015M	mg,	/kg	Analyze	d By: AB					QM-05
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2010	ND	157	78.7	200	0.202	
DRO >C10-C28	<10.0	10.0	08/08/2010	ND	152	76.2	200	0.648	
Surrogate: 1-Chlorooctane	87.1	% 70-130	r						
Surrogate: 1-Chlorooctadecane	101 % 70-13		1						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES, INC. 2111 Beechwood, Abitene, TX 19803. 101 East Marland, Hobbs, NM 90240 (915) 973-7001 Fax (915) 973-7020 (505) 393-2376 Fax (505) 393-2476

ANALYSIS REQUEST							995		3/200) x;	7/ Ha	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		maneters of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the stateme	**************************************	XXX			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		III D'Yes I No Additional Fax #: - D'Yes IX No	Sould the thing of the		· · · · · · · · · · · · · · · · · · ·	
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	Bob Alkal B. Boyer	CLINION, #103	State: NM Zlp: 88240	397-0510		Project Owner: May Use Linesport	j	of whole	MATINX	S	ABMATE SWATE	EWINDER AVELE CONF CONF CONF	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			208-5-34 6-1-X			Common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common and the common	MENTERORY LAND AND CONTROL OF THE PAGE OF THE PAGE OF THE STAND AND THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE OF THE PAGE O	Sampler Bellnau shed: Date; Defey (O Received By:	2	12/10 / Received UV:		(Circle One) (Santple Condition
Company Hame: STS1	Project Manager: R	Address: 703 E. C	City: HOBBS	Phone #: (505) 39	Fax #: (505) 703	Project #: 11 64 - 10	Profesi Name: 02	Project Location: 54	FOR LAN USE OHLY	A.	LAB I.D.	0.000				3	ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON ANALON AN	MANAGEMENT AND AND AND AND AND AND AND AND AND AND	manus de major de protection de protection de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina della	A. E. S. E. HO. J. LOFFIELD SAND DEBLEGER. FOR DEPLEYING STAND SAND SAND SAND SAND SAND SAND SAND S	Samplerdelinguished	4			Delivered By Clifc

† Cardinal cannot accept verbal changes. Please tax willten changes to \$15973-7020.

Sampler . UPS - Bus - Other:



August 09, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552,2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: ZL

Received:

BTEX 8260B

08/02/2010

Sampling Date:

07/29/2010

Reported:

08/09/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

mg/kg

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S23SB-1, 15' (H020505-01)

DILX 0200B	mg/	Ng .	Andryze	54 B y . 52					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	107 9	% 80-120							
Surrogate: Toluene-d8	ogate: Toluene-d8 111 %								
Surrogate: 4-Bromofluorobenzene	103 9	% 80-120							
TPH 418.1	mg/	'kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg/	/kg	Analyze	ed By: AB				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	85.8	% 70-130							
Surrogate: 1-Chlorooctadecane	103 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S23SB-1, 20' (H020505-02)

BTEX	8260R

ma/ka

Analyzed By: 71

BIEX 6200D	ilig/i	<u> </u>	Allatyzeu by. Zt.						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* Toluene*	<0.100	0.100	08/05/2010	ND	0.921	92,1	1.00	4.41	
Toluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
otal Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	113 %	6 80-120)		-				
Surrogate: Toluene-d8	107 %	6 80-120	١						

103 %

80-120

Eurrogate: 4-Bromofluorobenzene

	418.1	mg,	Analyze	d By: AB						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
ТРН	8015M	mg/kg		Analyzed By: AB						
	8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO	C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO	C6-C10 >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	

Surrogate: 1-Chlorooctane

84.9 %

70-130

'urrogate: 1-Chlorooctadecane

101%

70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

Sampling Type:

07/29/2010

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-1, 25' (H020505-03)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	115	% 80-120							
Surrogate: Toluene-d8	108 % 80-								
Surrogate: 4-Bromofluorobenzene	105 % 80-120								
TPH 418.1	mg/kg		Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg,	/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	85.8	% 70-130							
Surrogate: 1-Chlorooctadecane	102	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001 PENASCO S OF ARTESIA

Project Location:

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S23SB-1, 30' (H020505-04)

Pap.c 10.	 -, -0	(1.02000	٠.,
ВТЕХ 8260В			mg/k

BTEX 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	0.117	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	0.302	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	108	% 80-120)						
Surrogate: Toluene-d8	110 % 80-1)						
Surrogate: 4-Bromofluorobenzene	106	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	d By: AB		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
		70.100							

Surrogate: 1-Chlorooctane

86.6 %

70-130

Surrogate: 1-Chlorooctadecane

104%

70-130

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions **Bob Allen** 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-1, 40' (H020505-05)

BTEX 8260B	mg,	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100 0.100		08/05/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100 0.100		08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	112	% 80-120							
Surrogate: Toluene-d8	110	% 80-120							
Surrogate: 4-Bromofluorobenzene	106	% 80-120							
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	85.2	% 70-130							
Surrogate: 1-Chlorooctadecane	101	% 70-130							

Cardinal Laboratories

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

(575) 393-4388 Fax To:

Received:

BTEX 8260B

08/02/2010

Sampling Date:

07/29/2010

Reported:

08/09/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

mg/kg

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S23SB-1, 45' (H020505-06)

DIEX CECOB	9	ng .	Andryze	a by, LL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Foluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	118	% 80-120	1						
Surrogate: Toluene-d8	110	% 80-120	i						
Surrogate: 4-Bromofluorobenzene	107	% 80-120	ı						
TPH 418.1	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg,	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
_GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	86.6	% 70-130							**
Surrogate: 1-Chlorooctadecane	104	% 70-130	ı						

Analyzed By: ZL

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

ND

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

-

ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79803. 101 East Marland, Hobbs, NM 80240 (505) 393-2326 Fax (505) 303-2476 (915) 673-7001 Fax (915) 673-7020

ANALYSIS REQUEST							>								7							Time and Conditions is described to beinged on at account news flan 30 days part dat all the risk of 30 days weren from the optical clie otherwise, ind a tool to lead to the risk of the second flant to the coloridate of the coloridate.
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	11.11.11.00 PO#:	dompany: SAME	Alln: RRRand C	Aidress;	clly:	Siate: Zip:	Pliona #:	FAK	PRES. SAMPLINO		13 1000	Z						12/60/60/C X	**************************************	v *		le obsignation (or light of infined to the emocrat paid by the million enskead by Cardinia Williams cases affice congen engeloge, sast of ure, or lose of profile tookerad by cleek, the
Company Hame: SprcI	Project Manager: Rob NAM/B, Boyck	Addiess: 703 E, CLINION, #103	M.ZIp; 88240		*	Project Owner. Agg US Grazzet	1	" South of ANTONA	FOR LAB USE ONLY	25 52		2F/10X 2GIF MYZ⊥ GSON €CON	Hevens-1 122758-1,15-1611 X			1 2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	40.4	6 SA35R-1 +5 BILK				k extensite, initing and demages, Ordenia builly and duit excludate remaining the inferior in the best in the ordenia and the properties of the course and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and t

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· Responde to Bob & Studiona Phone Result D Yes
Fax Result: D Yes
REMARKS: ECICED BY Received By: ILabiStaff OJROJUS | 0)/3 130 Sirole One Delivered BA: Relinquistred DY:

| Cardinal cannot accept verbal changes. Please fax willen changes to 015-073-7020.

8

Sampler - UPS - Bus - Other:



August 09, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received: Reported: 08/02/2010

08/09/2010

AGA-10-001

Project Name: Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010 Soil

Sampling Type:

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-2, 15' (H020506-01)

	, aldi
Benzene*	
Toluene*	
Ethylbenze	ene*

GRO C6-C10

DRO >C10-C28

BTEX 8260B

Analyzed By: Zi.

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	0.683	0.100	08/05/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	0.572	0.100	08/05/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	2.85	0.200	08/05/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	0.823	0.100	08/05/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	3.67	0.300	08/05/2010	ND	2.73	90.9	3.00	6.67	

80-120 Surrogate: Dibromofluoromethane 91.7% Surrogate: Toluene-d8 113% 80-120 Surrogate: 4-Bromofluorobenzene 108 % 80-120

TPH 418.1	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TPH 418.1	4870	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

ND

ND

169

167

84.4

83.6

200

200

08/06/2010

08/06/2010

Surrogate: 1-Chlorooctane	91.9 %	70-130
Surrogate: 1-Chlorooctadecane	103 %	70-130

36.2

47.5

10.0

10.0

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*=Accredited Analyte

0.963

0.293

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-2, 20' (H020506-02)

BTEX	8260B

mg/l	ķ
------	---

100 %

70-130

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3enzene*	<0.100	0.100	08/05/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	0.101	0.100	08/05/2010	ND	1.06	106	1.00	4.94	
_Ethylbenzene*	0.105	0.100	08/05/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	0.387	0.200	08/05/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	0.210	0.100	08/05/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	0.597	0.300	08/05/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	92.0	% 80-120)						
Surrogate: Toluene-d8	113	% 80-120)						
Surrogate: 4-Bromofluorobenzene	119	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	9040	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17.9	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	27.1	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	83.2	% 70-130)						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Safety & Environmental Solutions Bob Alien 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: ZL

Received:

08/02/2010

Reported:

BTEX 8260B

08/09/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

mg/kg

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By: Jodi Henson

Sample ID: S23SB-2, 25' (H020506-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	0.247	0.100	08/05/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	0.180	0.100	08/05/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	0.968	0.200	08/05/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	0.293	0.100	08/05/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	1.26	0.300	08/05/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	102	% 80-120	1						
Surrogate: Toluene-d8	113	% 80-120)						
Surrogate: 4-Bromofluorobenzene	109	% 80-120)						
TPH 418.1	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	9500	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

08/06/2010

08/06/2010

70-130 Surrogate: 1-Chlorooctane 83.3 % 101% 70-130 Surrogate: 1-Chlorooctadecane

15.5

20.9

10.0

10.0

Cardinal Laboratories

GRO C6-C10

DRO >C10-C28

*=Accredited Analyte

0.963

0.293

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ND

ND

169

167

84.4

83.6

200

200



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-2, 40' (H020506-04)

ВТЕХ 8260В	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.900	90.0	1.00	12.2	
Benzene* Foluene*	0.270	0.100	08/05/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	0.217	0.100	08/05/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	1.10	0.200	08/05/2010	ND	1.83	91.7	2.00	6.02	
a. o-Xylene	0.308	0.100	08/05/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	1.41	0.300	08/05/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	90.2	% 80-120							,
Surrogate: Toluene-d8	110	% 80-120)						
Surrogate: 4-Bromofluorobenzene	106	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	9450	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ୁGRO C6-C10	25.8	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	51.7	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	85.2	% 70-130)						
Surrogate: 1-Chlorooctadecane	97.1	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such se. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Sampling Date:

07/29/2010

Reported:

08/09/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S23SB-2, 45.5-46.5' (H020506-05)

BTEX 8260B	mg/	'kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.100	0.100	08/05/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/05/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	93.0	% 80-120						<u> </u>	
Surrogate: Toluene-d8	111 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	110	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg/	kg	Analyze	d By: AB					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	84.1	% 70-130							<u></u>
Surrogate: 1-Chlorooctadecane	102 5	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

All claims, including those for negligence and PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Secretary.

AKY C

2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 80240

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Company Name: SpsT	<i>f</i>	1		•				SISXTVNY		request.				
Project Manager 130	ROT DIMMIN BOYON	Ro Vox	#: PO #:	PO#;							۸.		`	
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City: HOBBS	State: NM ZIn: 88240	88240			-	· · · · · · · · · · · · · · · · · · ·		· ,	,				·····	
Phone #: (505) 397-0510	0510	addonovojenje vojekovoje se produkta i kojekovoje i kojekovoje kojekovoje konominina i adologija dodonovoje i a	Address	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			***************************************							,
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Yes Tres Sample Condition CHECKED BY / III/ (III/)

† Cardinal cannot accept verbal changes. Please lax will enthanged of 3-473-7020.

Sampler - UPS - Bus - Other:

Delivered Dy: (Circle One



August 09, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

(575) 393-4388 Fax To:

Received:

08/02/2010

08/09/2010

Reported: Project Name:

AGA-10-001

Project Number: Project Location: AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil ** (See Notes)

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: S23SB-3, 10 (H020507-01)

BTEX 8260B	mg/	kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	1
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	;
Surrogate: Dibromofluoromethane	116	% 80-120							
Surrogate: Toluene-d8	102 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	109 9	% 80-120							i
TPH 418.1	mg/	'kg	Analyze	d By: AB	·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	85.7	% 70-130							
Surrogate: 1-Chlorooctadecane	103 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Sampling Date:

07/29/2010

Reported:

08/09/2010

Soil

Project Name:

Sampling Type: Sampling Condition:

** (See Notes)

AGA-10-001 AGA-10-001

Sample Received By:

Jodi Henson

Project Number: Project Location:

PENASCO S OF ARTESIA

Sample ID: S23SB-3, 15 (H020507-02)

•	-	•
		mg
	•	, ,

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	85.6	% 80-120)						
Surrogate: Toluene-d8	111	% 80-120)						
Surrogate: 4-Bromofluorobenzene	108	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg,	/kg	Analyze	d By: AB			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	82.7	% 70-130)						
Surrogate: 1-Chlorooctadecane	101	% 70-130	•						

Analyzed By: ZL

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 08/02/2010

08/09/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S23SB-3, 20 (H020507-03)

BTEX 8260B	mg,	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	94.2	% 80-120							
Surrogate: Toluene-d8	113	% 80-120	ı						
Surrogate: 4-Bromofluorobenzene	99.9	% 80-120							
TPH 418.1	mg,	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	85.9	% 70-130			<u></u>				
Surrogate: 1-Chlorooctadecane	101	% 70-130							

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*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/09/2010

Project Name: Project Number: AGA-10-001 AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/29/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-3, 25 (H020507-04)

ВТЕХ 8260B	mg	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3enzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Foluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
_ Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0,300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	89.5	% 80-120)						
Surrogate: Toluene-d8	108	% 80-120)						
Surrogate: 4-Bromofluorobenzene	107	% 80-120)						
TPH 418.1	mg	/kg	Analyze	d By: AB				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg	/kg	Analyze	d By: AB					
TPH 8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	87.7	% 70-130)						
Surrogate: 1-Chlorooctadecane	98.6	% 70-130)						

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Safety & Environmental Solutions **Bob Allen** 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Sampling Date:

07/29/2010

Reported:

08/09/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: \$23SB-3, 30 (H020507-05)

BTEX 8260B	mg/	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.900	90.0	1.00	12.2	
Toluene*	<0.100	0.100	08/06/2010	ND	1.06	106	1.00	4.94	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.971	97.1	1.00	0.847	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	1.83	91.7	2.00	6.02	
o-Xylene	<0.100	0.100	08/06/2010	ND	0.893	89.3	1.00	7.99	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	2.73	90.9	3.00	6.67	
Surrogate: Dibromofluoromethane	103 9	% 80-120	1						
Surrogate: Toluene-d8	108 9	% 80-120	ı						
Surrogate: 4-Bromofluorobenzene	106 9	% 80-120	ı						
TPH 418.1	mg/	kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	881	86.3	1020	17.8	
TPH 8015M	mg/	kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2010	ND	169	84.4	200	0.963	
DRO >C10-C28	<10.0	10.0	08/06/2010	ND	167	83.6	200	0.293	
Surrogate: 1-Chlorooctane	88.4	% 70-130				- 11,- 2			
Surrogate: 1-Chlorooctadecane	101 9	% 70-130							

Cardinal Laboratories

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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2111 Beechwood, Abitene, TX 79603 101 East Marland, Hobbs, NM 80240 (915) 973-7001 Fex (915) 973-7020 (505) 393-2326 Fex (505) 393-2476

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Sampler (Tellinguis) and the children by pulmaness of trades hereway by Cartral regarder of whither such definite based you lived in the desired of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont

o Additional Fax #:

To Bob & Schools



August 10, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

Sampling Date:

07/30/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

PENASCO S OF ARTESIA

Sample ID: S23SB-4, 10' (H020510-01)

BTEX 8260B	mg,	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/06/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/06/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	110	% 80-120							
Surrogate: Toluene-d8	98.7	% 80-120							
Surrogate: 4-Bromofluorobenzene	98.2	% 80-120							
TPH 418.1	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	89.3	% 70-130						***************************************	
Surrogate: 1-Chlorooctadecane	106	% 70-130							

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*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Reported: Project Name: 08/10/2010 AGA-10-001

Project Number:

Project Location:

AGA-10-001 PENASCO S OF ARTESIA Sampling Date:

07/30/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S23SB-4, 15' (H020510-02)

38		
BTEX	8260B	

ma	1	kα

100 %

70-130

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/06/2010	ND	0.917	91.7	1.00	3.13	
Ethylhanzano*	<0.100	0.100	08/06/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/06/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	3.06	102	3.00	2.46	
"Surrogate: Dibromofluoromethane	106	% 80-120	•						
Surrogate: Toluene-d8	97.3	% 80-120	•						
Surrogate: 4-Bromofluorobenzene	97.3	% 80-120	•						
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg	/kg	Analyze	d By: AB					
TPH 8015M Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
_ GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
GRO C6-C10 DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	88.2	% 70-130							

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'urrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Sampling Date:

07/30/2010

Reported:

08/10/2010

Sampling Type:

Soil

Project Name:

** (See Notes)

AGA-10-001 AGA-10-001 Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location:

PENASCO S OF ARTESIA

Sample ID: S23SB-4, 20' (H020510-03)

BTEX 8260B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/07/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/07/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/07/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/07/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/07/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/07/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	84.9	% 80-120							
Surrogate: Toluene-d8	94.4	% 80-120							
Surrogate: 4-Bromofluorobenzene	97.6	% 80-120							
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	88.8	% 70-130							
Surrogate: 1-Chlorooctadecane	101	% 70-130							

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*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name:

AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/30/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S23SB-4, 25' (H020510-04)

3TEX 8260B	mg/	kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.910	91.0	1.00	16.2	
Coluene*	<0.100	0.100	08/06/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.946	94.6	1.00	1.64	
n+p - Xylene	<0.200	0.200	08/06/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/06/2010	ND	1.03	103	1.00	1.44	
otal Xylenes*	<0.300	0.300	08/06/2010	ND	3.06	102	3.00	2.46	
Total Xylenes* Surrogate: Dibromofluoromethane	89.3 9	% 80-120	· ·						
Surrogate: Toluene-d8	96.1 %	% 80-120							
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	95.69	% 80-120							
TPH 418.1	mg/	kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

1PH 418	•1	mg,	/ Kg	Anaiyze	u by: Ab					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418	.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 801	5M	mg,	/kg	Analyze	d By: AB					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-	-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C		<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
<u></u>										

Surrogate: 1-Chlorooctane 91.6 % 70-130 Surrogate: 1-Chlorooctadecane 105 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Analyzed By: 71

Fax To:

(575) 393-4388

Received:

RTFY 8260R

08/02/2010

Sampling Date:

07/30/2010

Reported:

08/10/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

ma/ka

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S23SB-4, 30' (H020510-05)

BTEX 8260B	mg/	кд	Anaiyze	a By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/06/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/06/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	89.4	% 80-120							
Surrogate: Toluene-d8	97.4	% 80-120							
Surrogate: 4-Bromofluorobenzene	91.0	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	NĐ	990	97.1	1020	5.86	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	94.8	% 70-130							
Surrogate: 1-Chlorooctadecane	100 9	% 70-130							

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*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/30/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-4, 35' (H020510-06)

BTEX 8260B	mg/l	kg	Analyze	d By: ZL							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.100	0.100	08/06/2010	ND	0.910	91.0	1.00	16.2			
Toluene*	<0.100	0.100	08/06/2010	ND	0.917	91.7	1.00	3.13			
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.946	94.6	1.00	1.64			
m+p - Xylene	<0.200	0.200	08/06/2010	ND	2.04	102	2.00	2.98			
o-Xylene	<0.100	0.100	08/06/2010	ND	1.03	103	1.00	1.44			
Total Xylenes*	<0.300	0.300	08/06/2010	ND	3.06	102	3.00	2.46			
Surrogate: Dibromofluoromethane	105 %	6 80-120									
Surrogate: Toluene-d8	94.6 %	6 80-120									
Surrogate: 4-Bromofluorobenzene	93.9 %	6 80-120									
TPH 418.1	mg/l	kg	Analyze	d By: AB							
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
TPH 418.1	<100 100		08/05/2010	ND	990	97.1	1020	5.86			
TPH 8015M	mg/l	kg	Analyze	d By: AB							

Method Blank

ND

ND

BS

169

166

% Recovery

84.6

83.1

True Value QC

200

200

RPD

1.17

0.818

Qualifier

Analyzed

08/07/2010

08/07/2010

DRO >C10-C28	<10.0	10.0
Surrogate: 1-Chlorooctane	80.8 %	70-130

Result

<10.0

96.9 %

Reporting Limit

10.0

70-130

Cardinal Laboratories

Analyte

Surrogate: 1-Chlorooctadecane

GRO C6-C10

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

08/02/2010

Sampling Date:

07/30/2010

Reported:

08/10/2010

Sampling Type:

Soil

Project Name:

AGA-10-001

Sampling Condition:

** (See Notes)

Project Number:

AGA-10-001

Sample Received By:

Jodi Henson

Project Location:

PENASCO S OF ARTESIA

Sample ID: S23SB-4, 40 (H020510-07)

BTEX 8260B	mg/	'kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/06/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.946	94.6	1.00	1.64	
m+p - Xylene	<0.200	0.200	08/06/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/06/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibronofluoromethane	1129	% 80-120							
Surrogate: Toluene-d8	116	% 80-120							
Surrogate: 4-Bromofluorobenzene	1173	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M	mg/	kg	Analyze	d By: AB					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
DRO >C10-C28	<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	
Surrogate: 1-Chlorooctane	87.8 !	% 70-130							
Surrogate: 1-Chlorooctadecane	101 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported:

08/10/2010

Project Name:

AGA-10-001

Project Number: Project Location: AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/30/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-4, 44 (H020510-08)

20.0				
ВТ	EY	Ω	ผกเ	œ
3301	~~	02	v	u

ma/ka

Analyzed By: 70

DIEX 8200B	1119/1	\9	Analyze	d Dy. LL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/06/2010	ND	0.910	91.0	1.00	16.2	
Toluene*	<0.100	0.100	08/06/2010	ND	0.917	91.7	1.00	3.13	
Ethylbenzene*	<0.100	0.100	08/06/2010	ND	0.946	94.6	1.00	1.64	
Ethylbenzene* m+p - Xylene	<0.200	0.200	08/06/2010	ND	2.04	102	2.00	2.98	
o-Xylene	<0.100	0.100	08/06/2010	ND	1.03	103	1.00	1.44	
Total Xylenes*	<0.300	0.300	08/06/2010	ND	3.06	102	3.00	2.46	
Surrogate: Dibromofluoromethane	116 %	80-120							
Surrogate: Toluene_d8	116%	80-120							

Surrogate: Dibromofluoromethane	116%	80-120
Surrogate: Toluene-d8	116 %	80-120
Surrogate: 4-Bromofluorobenzene	115 %	80-120

TPH 418.1		mg,	/kg	Anaiyze	d By: AB					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1		<100	100	08/05/2010	ND	990	97.1	1020	5.86	
TPH 8015M		mg,	mg/kg		Analyzed By: AB					
TPH 8015M	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C1	0	<10.0	10.0	08/07/2010	ND	169	84.6	200	1.17	
GRO C6-C10 DRO >C10-C28		<10.0	10.0	08/07/2010	ND	166	83.1	200	0.818	

Surrogate: 1-Chlorooctane	86.3 %	70-130
Surrogate: 1-Chlorooctadecane	103 %	70-130

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliene, TX 79603, 101, East Marland, Hobbs, NM 86240

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

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Southwith Manner Street	Project Manager: Bob Nikm/ B., Boycak	Address: 703 E. CLINION, #103	4 ZIJ; 08240	Phono #: (505) 397-0510	,	lact Owner: Apa Use Groupel		MARIA	FOR LAB USE OULY MALTINIX	٤٠ ′	(C)(C)(S)		೦೦ =	-		5.6	\$ VO	1 04 4 38 BB C	3 73 358-4 44 6 1 X	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	P.E.A.S. 1992, Ushiy and Demison, Endual righty and direk and also have been also been also been also been as a property of their and the second as the complete of the consequence of t	while it is a secretary of the and the factorial of the participant of the factorial description of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the factorial of the fact	Simpler Relinquished: Dale 102/10 Received By:	

† Cardinal cannol accept verbal changes. Please fax willien change 16 73-7020.

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Reflinglighted By:



August 09, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: AGA-10-001

Enclosed are the results of analyses for samples received by the laboratory on 08/02/10 7:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524,4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 08/02/2010

08/09/2010

Project Name: Project Number: AGA-10-001

Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/30/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S23SB-5, 15 (H020511-01)

BTEX 8260B	mg,	kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	108	% 80-120						-	
Surrogate: Toluene-d8	115	% 80-120							
Surrogate: 4-Bromofluorobenzene	108	% 80-120							
TPH 418.1	mg,	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg,	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	166	83.0	200	0.157	
DRO >C10-C28	<10.0	10.0	08/05/2010	ND	163	81.4	200	2.94	
Surrogate: 1-Chlorooctane	87.6	% 70-130		11.00					
rrogate: 1-Chlorooctadecane 106 %		% 70-130							

*=Accredited Analyte Cardinal Laboratories

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Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: ZL

Received:

3TEX 8260B

08/02/2010

Reported:

08/09/2010

Project Name:

AGA-10-001

Project Number: Project Location:

AGA-10-001

PENASCO S OF ARTESIA

Sampling Date:

07/30/2010

Sampling Type:

Soil

200

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

"Sample ID: \$23SB-5, 20 (H020511-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
& 3enzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Foluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
n+p - Xylene	<0.200	0.200	08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethar	ne 88.9 9	% 80-120)						
Surrogate: Toluene-d8	114%	6 80-120)						
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzen	e 105 %	6 80-120)						
TPH 418.1	mg/	kg	Analyze	d By: AB					
B Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	08/04/2010	ND	1030	101	1020	4.74	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2010	ND	166	83.0	200	0.157	

08/05/2010

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

ORO >C10-C28

88.0 % 70-130

10.0

70-130

<10.0

81.7%

Cardinal Laboratories

*=Accredited Analyte

2.94

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ND

163

81.4

Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/02/2010

Reported: Project Name:

08/09/2010 AGA-10-001

Project Number:

AGA-10-001

Project Location:

PENASCO S OF ARTESIA

Sampling Date:

07/30/2010

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S23SB-5, 25 (H020511-03)

BTEX 8260	В

mg/kg	Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/05/2010	ND	0.921	92.1	1.00	4.41	
Toluene*	<0.100	0.100	08/05/2010	ND	0.881	88.1	1.00	5.88	
Ethylbenzene*	<0.100	0.100	08/05/2010	ND	0.977	97.7	1.00	6.64	
m+p - Xylene	<0.200	0.200	.08/05/2010	ND	1.96	98.2	2.00	13.4	
o-Xylene	<0.100	0.100	08/05/2010	ND	0.962	96.2	1.00	8.87	
Total Xylenes*	<0.300	0.300	08/05/2010	ND	2.93	97.5	3.00	11.9	
Surrogate: Dibromofluoromethane	80.1	% 80-120							
Surrogate: Toluene-d8	110 %	% 80-120							
Surrogate: 4-Bromofluorobenzene	101 %	% 80-120							
TPH 418.1	mg/	'kg	Analyze	d By: AB					
Analyte	Dan II								
•	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	Reporting Limit 100	Analyzed 08/04/2010	Method Blank ND	BS 1030	% Recovery	True Value QC 1020	RPD 4.74	Qualifier
,		100	08/04/2010			,	•		Qualifier
TPH 418.1	<100	100	08/04/2010	ND		,	•		Qualifier Qualifier
ТРН 418.1 ТРН 8015М	<100 mg/	100 ′kg	08/04/2010 Analyze	ND d By: AB	1030	101	1020	4.74	
TPH 418.1 TPH 8015M Analyte	<100 mg/ Result	100 'kg Reporting Limit	08/04/2010 Analyzed Analyzed	ND d By: AB Method Blank	1030 BS	101 % Recovery	1020 True Value QC	4.74 RPD	
TPH 418.1 TPH 8015M Analyte GRO C6-C10	<100 mg/ Result <10.0	100 (kg Reporting Limit 10.0 10.0	08/04/2010 Analyzed Analyzed 08/05/2010	ND d By: AB Method Blank ND	1030 BS 166	101 % Recovery 83.0	1020 True Value QC 200	4.74 RPD 0.157	

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax willten changes 1661 2873-7020.

Appendix B- Site Photographs



Sump #23



Sump #23



Sump #23



Sump #23



Tank Battery



Tank Battery



Tank Battery



Tank Battery



Sump #2

Appendix C- Soil Boring Logs



LOG OF BORING BSB-1

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy Sec 26, T18S R25E, Eddy County, NM Tank Battery Excavation BSB-1

Date, Time Started Date, Time Complete : 06/29/30, 1200 Hole Diameter Drilling Method

06/29/10, 1030 : 9 1/2 in.

: Hollow Stem Auger

Drilled By Sampling Method

: WDC Drilling and Wells 24-in. Splitspoon with : downhole hammer

Logged By

: Jennifer Knowlton, Agave	: David Boyer, PG	
	: Jennifer Knowlton	Agave

			xcavation W104° 2		Drilling Regulpment	: CME-85		pany Rep		Jennifer	- , , , -	, Agave
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cutting NR No recovery	(2.5' or 5') gs	DN	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-				0-5 feet. Excava	ated. Depth is from s	surface.						
5	SS			5-10 ft. SILT, cl 10 ft. no H/C sta	layey, gravelly, light l aining	prown, H/C odor						
10	SS	ML		0 110			H20253-1	<0.050	<0.050	13.3	104	1,580
15				Strong H/C odo CLAYEY GRAV	/EL, light brown to ginents, clay mixed in	ray, gravels are	H20253-2	<0.050	23.1	305	424	1,500
20	SS 	GC		H/C odor and s	taining.		H20253-3	1.68	118	1,420	1,240	7,030
-	SS	CL		gray, strong H/0	C odor		H20253-4	0.234	16.0	13.0	<10.0	<100
25	SS				AY, with caliche clay g from 1/8-3/4 in. H/0		H20253-4	0.234	10.0	13.0	~10.0	
30	SS	CL			e gravel, brown with strong H/C odor	grayish and	H20253-5	0.134	5.01	<10.0	<10.0	<100
35		GC	1/1/2	CI AVEY GRAV	/EL, brown with gray	ish zones H2O	H20253-6	0.081	9.57	238	301	1,290
-	SS	CL		\saturated (perc CLAY, cuttings	hed zone), strong H	/C odor						
40	SS	GC			GRAVEL, H2O saturaterial in shoe, no sa		H20253-7	0.084	5.05	60.4	11.9	332
,,	,	<u> </u>	17 5 2 5 5 7		usal, some clay, dry outside of SS, samp			-			<u> </u>	
45-												

Notes:

Location: Center of excavated battery

Pulling augers - H/C product at 25 ft. and on deeper augers

Backfilled with 3 bags QuikGrout



LOG OF BORING BSB-2

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Tank Battery Excavation BSB-2 N32° 42' 46.0", W104° 26' 55.8"

Date. Time Started

06/29/10, 1300 Date, Time Complete : 06/29/30, 1500 Drilled By Sampling Method : WDC Drilling and Wells : 24-in. Splitspoon with

Hole Diameter

: 9 1/2 in.

Logged By

: downhole hammer : David Boyer, PG

Drilling Method Drilling Equipment : Hollow Stem Auger : CME-85

Company Rep.

Jennifer Knowlton, Agave

	N32° 42	2' 46.0",	W104° 2	26' 55.8"	Drilling Equipment	: CME-85	Com	pany Rep). 	: Jennifer	Knowlton	ı, Agave
Depth in Feet	Sample Type	USCS	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cutting NR No recovery	2.5' or 5')	NO	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-		1	1					·	· · · · · ·			
- - -				0-5 feet. Excav	ated. Depth is from	surface.						
5 - - -	ss				LLY CLAY, staining erial above. Sampl	g and odor in shoe, e at 10 ft.						
10 - -	ss						H20253-8	<0.050	7.21	33.5	28.3	1,690
- 15 – -	SS			hard, stiff. Grav in. broken and			H20253-9	<0.050	4.32	47.6	10.7	<100
20-		- CL		1	or gray, charcoal, clay above, limited sam		H20253-10	<0.050	0.704	<10.0	<10.0	<100
25 - 25 -	SS			very strong H/C light brown to c	reme, gravels 1/4-3	GRAVELLY CLAY, 3/4 in., limestone,	H20253-11	<0.050	<0.050	80.8	57.1	255
30-	SS			hydrocarbons. 25-30 ft. Soft di -30 ft. GRAVEL	n., coarse sand, dry	brown, dry wn, soft, limestone	H20253-12	<0.050	1.66	41.0	56.2	<100
35 -	SS	ML		CLAYEY SILT/ dry, strong H/C	SILTY CLAY, very odor	light brown, soft,	H20253-13	0.156	21.8	479	387	1,470
40 - -	SS	ML		odor	SILT, soft, with small		H20253-14	0.235 <0.050	17.3 0.916	180 33.6	124 71.7	530 163
- - 45				sample	usal. Field TPH 399	o itorri dorenole	/					

Location: South side of excavated battery, 25 ft. south of BSB-1

Backfilled with QuikGrout



LOG OF BORING BSB-3

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy Sec 26, T18S R25E, Eddy County, NM

Date, Time Started Date, Time Complete : 07/26/10, 1545 Hole Diameter

07/26/10, 1400 : 9 1/2 in.

Drilled By Sampling Method : WDC Drilling and Wells : 24-in. Splitspoon with

: downhole hammer : David Boyer, PG

	Tank B	attery Ex	xcavation W104° 2		Drilling Method Drilling Equipment	: Hollow Stem Auger : CME-85		ged By ipany Rep		: David B	oyer, PG Knowltor	ł
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cuttini NR No recovery	(2.5' or 5') gs	N .	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-		T		_ _ _								
_		<u> </u>			ated. Depth is from s							
5-	SS	CL		3-8 ft. GRAVEL limestone grave fill at top.	LLY CLAY/CLAYEY (els, gray (natural colo	GRAVEL, brown, or), H/C odor, likely	H20482-1	-0.400	10.100	40.0		
10 - -	SS	LS/CL		8-13 ft. LIMEST	FONE with clay, brow	n, slight H/C odor	H20482-1	<0.100	<0.100	<10.0	<10.0	<100
15	SS	CL			ELLY CLAY, brown, at 17 ft., slight H/C or		H20253-3	<0.100	<0.100	<10.0	<10.0	<100
20-	СТ	CL		odor	gs, CLAY, plastic, da		H20253-4	<0.100				
25—	SS	LS/CA		odor 25 ft. Very hard	own, plastic, moist, F	ck or caliche	1120255-4	<0.100	<0.100	<10.0	<10.0	<100
30 -	SS	LS/CL LS/SM		\H/C <u>odor,</u> 28-33 ft. Bedroo grained, dry, no	ck with CLAY, very ck with silt and sand, o staining, possible o ld not recover, aband titings.	very fine dor. Lost shoe on	H20253-5	<0.100	<0.100 <0.100	<10.0	<10.0 <10.0	<100 <100
35 -												
40									•			

45-

Location: East side of excavated battery, 35 ft. east of BSB-1

Backfilled with 4 bags QuikGrout

H/C - hydrocarbon

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LOG OF BORING BSB-4

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Date, Time Started

Hole Diameter

07/27/10, 0800

Date, Time Complete : 07/27/10, 0930

: 9 1/2 in. : Hollow Stem Auger Drilled By Sampling Method

: WDC Drilling and Wells : 24-in. Splitspoon with

: downhole hammer

				n BSB-4 26' 56.2"	Drilling Method Drilling Equipment	: Hollow Stem Auger : CME-85		ged By npany Rep		: David B : Jennifer	•	n, Ag
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cutting NR No recovery	2.5' or 5'))N	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1
0				0-5.5 feet. Exca	avated. Depth is from	n surface.						
-	SS (CL		10.5 ft. SILTY C	CLAY with gravel, bro	own, very strong	H20483-1	1.92	123	1,140	994	3,
15-	SS CL	./CA			CLAY with hard calic CLAY, dark gray, stro		H20483-2	3.84	148	445	743	3,
20-	SS SS			CLAY with limes white, very stiff,	stone gravels, light of strong H/C odor	gray to chalk	H20483-3	1.67	124	306	619	2,
25-		CL		CLAY, brown w Some small lim odor	ith gray and white st estone/caliche fragn	treaks very stiff. nents, strong H/C	H20483-4	4.24	100	440	351	1,
30-	SS (CL.		GRAVELLY CL H/C odor	AY, brown with gray	streaks, strong	H20483-5	2.71	132	608	570	2,
=	CT G	SW		sample from cu			H20483-6	0.278	62.7	295	388	1
45-		CL		fragments, water strong H/C odo: 45.5 ft. CLAY, b	ith gray streaks, plaser saturated in grave r r prown, soft, slightly n	el fragment zone,	H20483-7	<0.100	<0.100	<10.0	<10.0	<
50 — Notes:	SS			47.5 ft. Bedrock	x, auger refusal.							



LOG OF BORING BSB-5

(Page 1 of 1)

Penasco Compressor Station Investigation
Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Tank Battery Excavation BSB-5 N32° 42' 46.5", W104° 26' 55.9"

Date, Time Started : 07/27/10, 1030 Date, Time Complete : 07/27/10, 1130

Hole Diameter : 9 1/2 in.

Drilling Method : Hollow Stem Auger
Drilling Equipment : CME-85

Drilled By Sampling Method

Logged By

Company Rep.

: WDC Drilling and Wells : 24-in. Splitspoon with : downhole hammer

: David Boyer, PG : Jennifer Knowlton, Agave

			,							
				Sample Type						
				SS Split Spoon (18" or 24")		(fc				
	4)			CB Core Barrel (2.5' or 5')		X,		<u> </u>	<u> </u>	
	ype			CT Auger Cuttings		jm)	X	3/Kg	/Kg	<u></u>
Depth	<u>e</u>) H	NR No recovery		eue	BTE	ĵш)	ĵш)	418 (g)
in Feet	Sample Type	USCS	GRAPHIC	DESCRIPTION	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
) >	O	DEGOTAL FIGURE		Ď	F 5	G	Ω	F 5
0-		T -							-	
				0-5.5 feet. Excavated. Depth is from surface.						
-										
5-										
-			1. 1.							
-	cc	CL	1. 1.							
	SS	CL		10.5 ft. GRAVELLY CLAY, brown to creme color,						
10-			1.7.	moist, H/C odor						
-	:		1.2.6		H20483-1	<0.100	<0.100	<10.0	<10.0	580
1 +		1	1			l				
	NR									
15				No sample, fractured limestone in split spoon					:	
'37			/:/:							
_										
-	SS	GC								
-				20.5 ft.GRAVELLY CLAY/CLAYEY GRAVEL, dry, clay stiff, slight H/C odor						
20-		ļ			H20483-2	<0.100	1.37	<10.0	<10.0	<100
	SS	CL/LS		25.5 ft. CLAY, brown/white streaks, dry, stiff, H/C						
-				odor, Alternating with fractured limestone broken by						
25-				bit. Limestone grayish with H/C staining and strong odor	H20483-3	<0.100	1.96	<10.0	<10.0	<100
		}		/	1120 100 0	10,100	1.50	10.0	110.0	1,00
	NR			 25-30 ft. Hard drilling, rock or large cobbles				1		
2	MIX			25-50 It. Hard drilling, rock of large cobbles						
30-			i							
-	SS	CL	1. 1. 1.	30.5 ft. GRAVELLY CLAY alternating between	H20483-4	<0.100	<0.100	<10.0	<10.0	<100
-				fractured rock. Clay, brown, soft, plastic, with gravels mixed inH/C odor						
				31 ft. Auger refusal						
35-										
										ĺ
,										
1 +										

40 -Notes:

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Location: North side of excavated battery, 25 ft. north of BSB-1

Backfilled with 3 bags QuikGrout



LOG OF BORING BSB-6

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy Sec 26, T18S R25E, Eddy County, NM

Date, Time Started Date, Time Complete

07/28/10, 1300 : 07/28/10, 1410

: 9 1/2 in.

Drilled By Sampling Method WDC Drilling and Wells 24-in. Splitspoon with downhole hammer

Tank Battery Excavation BSB-6 N32° 42' 45.8", W104° 26' 55.9" Hole Diameter **Drilling Method Drilling Equipment**

: Hollow Stem Auger CME-85

Logged By Company Rep David Boyer, PG

Jennifer Knowlton, Agave

Depth in Feet	Sample Type	USCS	GRAPHIC	Sample Type SS Split Spoon (18" or 24") CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery DESCRIPTION	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-								:		
-				0-5 feet. No sampling - excavation south sidewall is clean.Knifed hole to 5 ft. for utility check						
5-	SS									
10-	NR	- ML		GRAVELLY CLAYEY SILT, light brown, dry, no H/C staining or odor 15 ft. Gravel, no returns	H20513-1	<0.100	<0.100	<10.0	<10.0	<100
15-	SS			Second try at 15 ft. CLAY with minor caliche and small gravels, mottled light brown to creme white, very stiff, dry, no H/C staining or odor	H20513-2	<0.100	<0.100	<10.0	<10.0	<100
20-	SS	CL		CLAY, as above with more gravel and caliche, mottled light brown to creme white, very stiff, dry, no H/C staining or odor	H20513-3	<0.100	<0.100	<10.0	<10.0	<100
25	ss	CL/CA		CLAY and CALICHE, clay mottled brown with white streaks, dry, very stiff. Caliche white, soft, friable, no H/C staining or odor 27 ft. Hard drilling, gravels	H20513-4	<0.100	<0.100	<10.0	<10.0	<100
-	SS	CL/GW	9 9 9 9 9	CLAY, gravelly, mottled as above, dry, very stiff, some soft caliche, no H/C staining or odor 30-35 ft. Alternating CLAY and GRAVEL, no H/C staining or odor on cuttings,	H20513-5	<0.100	<0.100	<10.0	<10.0	<100
35	SS	GW		35 ft. Fractured limestone gravels in tip, nothing to sample, possible H/C odor on cuttings 35-40 ft. Rock. Tried splitspoon but broke threads. Tried to drill from 40 to a softer spot but auger refusal at 40-41 ft.						
40	SS	<u> </u>	, e , e	L						
45-										

Notes:

Location: South of excavated battery outside fence, 30 ft. south of BSB-2 Backfilled with 6 bags QuikGrout



LOG OF BORING BSB-7

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy Sec 26, T18S R25E, Eddy County, NM

Date, Time Started Date, Time Complete : 07/29/10, 1550 Hole Diameter

07/28/10, 1430 : 9 1/2 in.

Drilled By Sampling Method

WDC Drilling and Wells : 24-in. Splitspoon with : downhole hammer

Tank Battery Excavation BSB-7

Drilling Method

: Hollow Stem Auger Logged By · CME 95

: David Boyer, PG

	N32° 42' 46.3", W10-			26' 57.0" Drilling Equipment : CME-85	Com	ipany Rep).	: Jennifer	Knowlton	ı, Agave
Depth in Feet	Sample Type	USCS	GRAPHIC	Sample Type SS Split Spoon (18" or 24") CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery DESCRIPTION	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-		T				<u> </u>				
5-				0-6 feet. No sampling - knifed to 6 ft. for utility check						
10-	SS	CL		10 ft. SILTY CLAY, light brown, soft, no H/C staining or odor	H20514-1	<0.100	<0.100	<10.0	<10.0	<100
- - 15	SS			15 ft. GRAVELLY SILTY CLAY, brown, soft, with soft limestone gravels. No H/C staining or odor in spoon	H20514-2	<0.100	<0.100	<10.0	11.1	<100
20-	SS	CL		but in cuttings. 20 ft. GRAVELLY SILTY CLAY, clay mottled, dry,	1100544.0					
25-	SS			plastic. No H/C staining, possible slight odor	H20514-3	<0.100	<0.100	<10.0	<10.0	<100
-	NR			No recovery, gravels						
30-	NR	GW	0 0 0	No recovery, gravels						
-	S\$	-		Stop drilling at 33 ft. Took sample. Rig down and offsite 1600 due to lightning. Resume 1500 7/29. Water in hole and after drilling out, likely in gravels saturated from rain.	H20514-4	<0.100	<0.100	<10.0	<10.0	<100
35-	ss	CL		35 ft. CLAY, light brown with white streaks, dry, very stiff, occasional H/C staining, no H/C odor	H20514-5	<0.100	<0.100	<10.0	<10.0	<100
40-	SS	CL		40 ft. SILTY CLAY, brown, soft, slightly damp, no H/C staining or odor	H20514-6	<0.100	<0.100	<10.0	<10.0	<100
45-	S\$	CL		CLAY, light brown, stiff, plastic, no H/C staining or odor	H20514-7	<0.100	<0.100	<10.0	<10.0	<100
50-										

Notes:

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Location: West of excavated battery outside fence, 25 ft. south of BSB-4

Backfilled with 7 bags QuikGrout



LOG OF BORING S2SB-2

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Sump 2 S2SB-2 N32° 42' 48.5", W104° 26' 55.2" Date. Time Started 07/27/10, 1430

Hole Diameter

Drilling Method

Date, Time Complete : 07/27/10, 1600 ; 9 1/2 in.

: Hollow Stem Auger

Drilled By Sampling Method

WDC Drilling and Wells : 24-in. Splitspoon with

: downhole hammer

Logged By : David Boyer, PG Company Rep. : Jennifer Knowlton, Agave

	N32° 4		S2SB-2 W104° 2	26' 55.2"	Drilling Nethod Drilling Equipment	: CME-85		јео ву ipany Rep		: David B : Jennifer	Knowltor	ı, Agave
Depth in Feet	Sample Type	USCS	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cutting NR No recovery	(2.5' or 5') gs	N	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-		<u></u>	LXX				1					
5 - 10 - 15 - 20 - 20 -		AR			vated and backfilled							
-	SS	CL		20 ft. SILTY CL may be backfill,	AY, brown, soft, mo , H/C odor	ist, rock at base,	H20486-1	<0.100	<0.100	<10.0	<10.0	855
25-		CL	1. 1. 1	25 ft. GRAVELI	Y CLAY, brown, dry	v, slight H/C odor	H20486-2	<0.100	<0.100	<10.0	<10.0	182
-	SS	LS		~27-30 ft. Rock length	, likely LIMESTONE	, hard drilling entire		:				
30-		GC		30 ft. CLAYEY	GRAVEL, light brow	n, strong H/C odor	H20486-3	<0.100	<0.100	<10.0	55.2	357
	SS	GW	0 0 0	~32-35 ft. Very	hard drilling, almost	auger refusal						
ő 35–		GM/CL			GRAVELLY SILT wi							
35 40 45 45 45 45 45 45 45 45 45 45 45 45 45	SS	GP	P 0 9 7 7 7 7 7 7 7 7 7	~37-40 ft. Very river GRAVEL (hard drilling, large roon auger flights om cuttings. TPH from spoon 191 ppm	ounded 2-4 in.	H20486-4	<0.100	<0.100	<u><10 0</u>	<10.0	≤100
45												

50-

Location: Center of excavated/backfilled sump S2

Backfilled with 5 bags QuikGrout



LOG OF BORING S2SB-3

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Sump 2 S2SB-3 N32° 42' 48.3", W104° 26' 55.2" Date, Time Started

Hole Diameter

Drilling Method

07/28/10, 0745 Date, Time Complete : 07/27/10, 0900

: 9 1/2 in.

: Hollow Stem Auger Drilling Equipment : CME-85

Drilled By Sampling Method

Logged By

Company Rep.

WDC Drilling and Wells : 24-in. Splitspoon with

: downhole hammer

: David Boyer, PG

: Jennifer Knowlton, Agave

	1932 42 40.3		VV104	26 33.2	Drilling Equipment . CME-03		ipany Nep	J.	. serimer	KIIOWROI	i, Agave
Depth in Feet	Sample Types SS Split Spoot CB Core Barre CT Auger Cu NR No recover SS SS SS Split Spoot CB Core Barre CT Auger Cu NR No recover SS SS SS Split Spoot CB Core Barre CT Auger Cu NR No recover SS SS SS SS SS SS SS SS SS SS SS SS SS				(2.5' or 5') igs	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0- - - - 5-					mpling - Knifed hole to 5 ft. for utility						
5- - - 10-	SS	GC		10 ft. CLAYEY or odor dry	GRAVEL, light brown, no H/C staining	H20508-1	<0.100	<0.100	<10.0	<10.0	<100
- - - 15	SS	SS ML/GM 15 ft. GRAVEL		very fine graine	LY SANDY SILT, light brown, dry, sand ed, limestone gravels and pieces, odor, no staining	H20508-2	<0.100	<0.100	<10.0	<10.0	<100
- - - 20-	SS	CA/CL		20 ft. CALICHE staining or odo	E and CLAY, white, soft, dry, no H/C	H20508-3	<0.100	<0.100	<10.0	<10.0	<100
- - - 25—	NR	GW		25 ft. No recove							
- - - 30-	NR	NR 26 ft. Rock or 30 ft. No reco		30 ft. No recove							
35-	SS	CL			own, stiff, no H/C staining or odor ft. and took sample	H20508-4	<0.100	<0.100	<10.0	<10.0	<100
- -											

40-

45

Location: 19.5 ft. southeastof excavated/backfilled sump and S2SB-2

Backfilled with QuikGrout H/C - hydrocarbon

ZACompany Files/Agave Energy/AGA-10-001 Penasco Yard/Boring logs\S2SB-3.bor



LOG OF BORING S2SB-4

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Sump 2 S2SB-4 N32° 42' 48.4", W104° 26' 55.4"

Date, Time Started

Drilling Method

: 07/28/10, 0900 Date, Time Complete : 07/28/10, 1030

: Hollow Stem Auger

Drilled By Sampling Method

WDC Drilling and Wells : 24-in. Splitspoon with

Hole Diameter

: 9 1/2 in.

Logged By

: downhole hammer

: David Boyer, PG : Jennifer Knowlton, Agave

	N32° 42' 48.4", W104° 26' 55.4"				Drilling Method Drilling Equipment	: CME-85	51		јец ву ipany Rep	i. :	: Jennifer	Knowlton	ı, Agave
Depth in Feet	Sample Type	USCS	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cutting NR No recovery	(2.5' or 5') gs	N		Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-			[\top						
-				0-5 feet. No sar check	mpling - Knifed hole	to 5 ft. for utility							
5- - - - 10-	SS	GM		10 ft. SILTY CL splitspoon barre	AYEY GRAVEL, littl el, no H/C staining o	e sample in r odor		H20509-5	<0.100	<0.100	<10.0	64.5	937
15-	SS	CL			th small caliche grav			H20509-1	<0.100	<0.100	<10.0	<10.0	<100
- -	SS	CA/CL			and CLAY, chalk w	nite, dry, very stiff,	- 1	H20509-2	<0.100	<0.100	<10.0	<10.0	<100
20-	SS	CA/CL		25 ft. CALICHE	ating gravels and cla		- 1	H20509-3	<0.100	<0.100	<10.0	<10.0	<100
25-	NR	- GW		30 ft. GRAVEL	H/C staining or odor frags, limestone grato sample for analys	yish, limestone	- 1	1120309-3	V0.100	70.100	< 10.0	~10.0	~100
35-	SS	GVV		30-35 ft. GRAV	ELs, odor in returne	d cuttings.							
) -	ss	CL		35 ft. CLAY, lig stiff (fat clay), n	ht brown with some	mottling, dry, very or		H20509-4	<0.100	<0.100	<10.0	<10.0	<100
40-							_ /-						

50-

Z.\Company Files\Agave Energy\AGA-10-001 Penasco Yard\Boring logs\S2SB-4.bor

Location: 19.5 ft. southwest of excavated/backfilled sump and S2SB-2

Backfilled with 4 bags QuikGrout



LOG OF BORING S2SB-5

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Date, Time Started

07/28/10, 1100 Date, Time Complete : 07/28/10, 1200

Drilled By Sampling Method : WDC Drilling and Wells : 24-in. Splitspoon with

Hole Diameter

9 1/2 in.

: downhole hammer

Sump 2 S2SB-5

Drilling Method

: Hollow Stem Auger

Logged By

: David Boyer, PG

	N32° 42	2' 48.7",	W104° 2	6' 55.4" Drilling Equip	ment : CME-85	Com	pany Rep).	Jennifer	Knowlton	ı, Agave
Depth in Feet	Sample Type	USCS	GRAPHIC	Sample Type SS Split Spoon (18" or 24") CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery DESCRI	IPTION	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0 -				0-5 feet. No sampling - Knifed check							
5-	SS			5 ft. GRAVELLY SILT, light be fragments, no H/C staining or	rown, limestone gravel r odor	H20512-1	<0.100	<0.100	<10.0	<10.0	<100
10	ss	ML		10 ft. GRAVELLY SILT, light fragments, dry, no H/C staining	brown, limestone gravel ng or odor	H20512-2	<0.100	<0.100	<10.0	<10.0	<100
15	SS			15 ft. GRAVELLY SILT, light fragments, dry, no H/C staining	brown, limestone gravel ng or odor	H20512-3	<0.100		<10.0	<10.0	<100
20-	NR	CL/ML	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 ft. CLAY and GRAVELLY white, silt light brown, no H/C 22-25 ft. Gravels and cobbles sample, no H/C staining or or	staining or odor	H20512-4	<0.100	<0.100	<10.0	<10.0	<100
25	NR	GW		25-27 ft. Cobbles and gravels27 ft. Soft drilling 27.5-28 ft.28-30 ft. Gravels	5	Honries	.0.100	.0.400			
30-	SS	CL	3,000	30 ft. CLAY, mottled light brodry, occasional small gravel, 31-34 ft. More hard drilling, nutrings.	no H/C staining or odor	H20512-5	<0.100	<0.100	<10.0	<10.0	<100
35-		CL	a	cuttings 34 ft. CLAY, mottled brown a dry, no H/C staining or odor	nd chalk color, very stiff,	H20512-6	<0.100	<0.100	<10.0	<10.0	<100
40-	,	·. ·· · · · · · · · · · · · · · · · · ·				4700					

Notes:

Location: East of fence 18 ft. northeast of excavated/backfilled sump and S2SB-2

Backfilled with 5 bags QuikGrout



LOG OF BORING S23SB-1

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Sump 23 S23SB-1 N32° 42' 49 6" W/104° 26'

Date, Time Started

: 07/29/10, 0745 Date, Time Complete : 07/29/10, 0930 : 9 1/2 in.

Drilled By Sampling Method

: WDC Drilling and Wells : 24-in. Splitspoon with : downhole hammer

Hole Diameter Drilling Method

Logged By : Hollow Stem Auger · CME OF

: David Boyer, PG · Jonnifor Knowlton, Agave

	N32° 42	2' 49.6",	W104° 2	26' 59.7"	Drilling Equipment	: CME-85	Com	apany Rep) .	: Jennifer	Knowltor	n, Agave
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel CT Auger Cuttin NR No recovery	(2.5' or 5')	NC	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0								T			<u> </u>	
5-				0-6 feet. No sa check	mpling - Knifed hole	e to 6 ft. for utility		:				
10	NR	GW		10 ft. No recove	ery, GRAVEL							
15	SS	CL		11 ft. CLAY, so	oft drilling							
- - - -	SS	CL		no H/C staining	g or odor	astic, slightly damp,	H20505-1	<0.100	<0.100	<10.0	<10.0	<100
20-	ss	0114			_AY with alternating staining or odor	clay/silty clay,	H20505-2	<0.100	<0.100	<10.0	<10.0	<100
25	SS	GW		25 ft. CALICHE	and CLAY, mixed,	white to light	H20505-3	<0.100	<0.100	<10.0	<10.0	<100
30-	·····	CL/CA		caliche white w	AY and CALICHE,	nd top of sample	H20505-4	<0.100	<0.100	<10.0	<10.0	<100
35	NR	GW		Cuttings are dr 30-35 ft. GRAV 35 ft. No recove		r odor						
	SS			35-40 ft. Soft d	rilling							
40	SS	CL		40 ft. SILTY CL soft, crumbly, n	_AY, light brown, so no H/C staining or o	me mottling, dry, dor	H20505-5	<0.100	<0.100	<10.0	<10.0	<100
45-		CA/CI		45 ft. CALICHE brown, dry, crui	white to light -colored staining,	H20505-6	<0.100	<0.100	<10.0	<10.0	<100	
-							•					

50-Notes:

Z:\Company Files\Agave Energy\AGA-10-001 Penasco Yard\Boring logs\S23SB-1.bor

Location: 20 ft. northeast of excavated/backfilled sump and S23SB-2

Backfilled with 6 bags QuikGrout



LOG OF BORING S23SB-2

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Sump 23 S23SB-2

Date, Time Started

: 07/29/10, 1000 Date, Time Complete : 07/29/10, 1130 Drilled By Sampling Method : WDC Drilling and Wells : 24-in. Splitspoon with

Hole Diameter

: 9 1/2 in.

: downhole hammer

Drilling Method : Hollow Stem Auger Logged By

: David Boyer, PG

		2' 49.3",	W104° 2		Drilling Equipment	: CME-85	Com	pany Rep) .	: Jennifer	Knowlton	ı, Agave
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cuttin NR No recovery	(2.5' or 5') gs	ON	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-			T									
5-				0-6 feet. No sai check	mpling - Knifed hole	to 6 ft. for utility						
10	NR	AR		10 ft. Backfill, c	dean fill						:	
15	NR											
-	SS	CL		(not crude petro	,		H20506-1	<0.100	4.93	36.2	47.5	4,870
20-	SS			plastic, strong o		ck staining, soπ,	H20506-2	<0.100	0.803	17.9	27.1	9,040
25	ss	GW CL/CA			AY with CALICHE a rown, soft, some sta		H20506-3	<0.100	1.40	15.5	20.9	9,500
30-	NR			30 ft. CALICHE sample	and GRAVELs, no	recovery for						
35	NR	-CA/GW			and GRAVEL as a odor in gravel fragr							
40-	SS	CL/CA			h CALICHE, mottled nents, no staining, s		H20506-4	<0.100	1.90	25.8	51.7	9,450
45— - - - 50—	SS	GW CL GW	5 . 6 . 6 . 7 . 6 . 6	streaks and vel	lling. CLAY, brown, llowish rust streaks, ng. Took sample 45.	mottled with white dry, stiff, some 5-46.5 ft. Field TPH	H20506-5	<0.100	<0.100	<10.0	<10.0	<100
55-					ELs, increasingly h	ard drilling. Auger						

Location: Center of excavated/backfilled sump 23

Backfilled with 5 bags QuikGrout

H/C - hydrocarbon

Z.\Company Files\Agave Energy\AGA-10-001 Penasco Yard\Boring logs\S233SB-2.bor



LOG OF BORING S23SB-3

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Date. Time Started

: 07/29/10, 1245 Date, Time Complete : 07/29/10, 1445 Drilled By Sampling Method : WDC Drilling and Wells 24-in. Splitspoon with

Sec 26, T18S R25E, Eddy County, NM

Sump 23 S23SB-3

Hole Diameter : 9 1/2 in.

Logged By

: downhole hammer : David Boyer, PG

: Hollow Stem Auger

	N32° 42	Sump 23 2' 49.1",	S23SB- W104° 2	·3 27' 00.2"	Drilling Method Drilling Equipment	: Hollow Stem Auger : CME-85		ged By npany Re			loyer, PG r Knowltoi	
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cuttini NR No recovery	(2.5' or 5') gs	N	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0-	ss		Ţ				T	T				
5—				0-6 feet. No sai check	mpling - Knifed hole t	o 6 ft. for utility					-	
10-	NR				nt brown, soft, plastic	, damp, no H/C	H20507-1	<0.100	<0.100	<10.0	<10.0	<100
- - 15-	SS	CL		staining or odor	ht brown, soft, plastic	, damp, no H/C	H20507-2	<0.100	<0.100	<10.0	<10.0	<100
20	SS			staining or odor	·							
20-	SS			flakes in matrix	nt brown, dry, stiff, wi , caliche in core also.	no H/C staining or	H20507-3	<0.100	<0.100	<10.0	<10.0	<100
25 — - -	SS	CA LS			CALICHE, white to lig umbly,no H/C odor	ght brown, old H/C	H20507-4	<0.100	<0.100	<10.0	<10.0	<100
30-	SS	CA		30 ft. CALICHE H/C staining or	, white, dry, crumbly, odor	some clay, no	H20507-5	<0.100	<0.100	<10.0	<10.0	<100
35 -	NR	GW/LS		36 ft. Heavy GF refusal	RAVEL or LIMESTON	IE Rock, auger)					
40												
 45												
50 —												
Backfille	n: 24 ft. se ed with 4 ydrocarbo	bags Quil		ited/backfilled sump	o and S23SB-2			, , , , , , , , , , , , , , , , , , , ,				



LOG OF BORING S23SB-4

(Page 1 of 1)

Penasco Compressor Station Investigation

Agave Energy Sec 26, T18S R25E, Eddy County, NM

Sump 23 S23SB-4 N32° 42' 49.5", W104° 26' 59.8" Date, Time Started

: 07/30/10, 0730

: Hollow Stem Auger

Drilled By Sampling Method WDC Drilling and Wells

Hole Diameter

Date, Time Complete : 07/30/10, 0900 : 9 1/2 in.

24-in. Splitspoon with : downhole hammer

Drilling Method Drilling Equipment Logged By Company Rep. : David Boyer, PG

		Sump 23 2' 49.5",		-4 26' 59.8"	Drilling Method Drilling Equipment	: Hollow Stem Auger : CME-85		Comp	ed By pany Rep	D.	: David B : Jennifer	oyer, PG Knowltor	n, Agave
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cutting NR No recovery	(2.5' or 5') gs	N	Lab	o No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
5					mpling - Knifed hole rain water out of ho								
- - 10-	SS	CL		10 ft. SILTY CL Clay brown, sof	AY, with small grave t, no H/C staining or	ls/coarse sand. odor	H20	510-1	<0.100	<0.100	<10.0	<10.0	<100
15-	SS	CL/CA		15 ft. CLAY mix Clay brown, dry	red with CALICHE, C	aliche white, soft. aining or odor	H20	510-2	<0.100	<0.100	<10.0	<10.0	<100
20-	SS	CL			own with white streak C staining or odor ,	ss and speckling,	H20	510-3	<0.100	<0.100	<10.0	<10.0	<100
25 -	SS	CA		25 ft. CLAYEY (staining or odor	CALICHE, dry, crum	bly, white, no H/C	H20	510-4	<0.100	<0.100	<10.0	<10.0	<100
30-	SS SS	GC/CA		30 ft. GRAVELL white, stiff, crum	Y CLAYEY CALICH	E, light brown to or odor	H20	510-5	<0.100	<0.100	<10.0	<10.0	<100
35-	ss	CA		35 ft. CLAYEY (staining or odor gravels	CALICHE, white, gra	velly, no H/C to hard drilling in	H20	510-6	<0.100	<0.100	<10.0	<10.0	<100
40	SS	graveis 26 40 ft. GRAVEI			LY CLAYEY CALICH taining or odor. Hard		H20	510-7	<0.100	<0.100	<10.0	<10.0	<100
45		CL		SILTY CLAY, lig	ght brown, soft, with caliche. No H/C stain	limestone gravels ing or odor	H20	510-8	<0.100	<0.100	<10.0	<10.0	<100
-													

50-

Z:\Company Files\Agave Energy\AGA-10-001 Penasco Yard\Boring logs\S23SB-4.bor

Location: 41 ft. northwest of excavated/backfilled sump and S23SB-2

Backfilled with 6 bags QuikGrout



LOG OF BORING S23SB-5

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Sump 23 S23SB-5 N32° 42' 48.8". W104° 26' 59.6"

Date, Time Started

Hole Diameter

Drilling Method

07/30/10, 0730 Date, Time Complete : 07/30/10, 0900

: Hollow Stem Auger

: 9 1/2 in.

Drilled By

Logged By

: WDC Drilling and Wells : 24-in. Splitspoon with

Sampling Method

: downhole hammer

: David Boyer, PG

	Sump 23 S23SB-5 N32° 42' 48.8", W104° 26' 59.6"				Drilling Ivetnoo Drilling Equipment	: CME-85		јео ву ipany Rep		: Jennifer	Knowlton	ı, Agave
Depth in Feet	Sample Type	nscs	GRAPHIC	Sample Type SS Split Spoon (CB Core Barrel (CT Auger Cutting NR No recovery	(2.5' or 5') gs)N	Lab No.	Benzene (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
0- - - - 5-					mpling - Knifed hole I rain water out of hol							
- - 10-	NR			10 ft. GRAVELs	s, no recovery							
- - -	SS	GW										
15 - - -	SS	CL		15 ft. SILTY CL no H/C staining	.AY, brown, soft, plas g or odor	stic, slightly damp,	H20511-1	<0.100	<0.100	<10.0	<10.0	<100
20-	SS	CL/CA		20 ft. SILTY CL limestone fragn staining or odo	AY with CALICHE, conents, some minor con	chalk color, small lay, dry, no H/C	H20511-2	<0.100	<0.100	<10.0	<10.0	<100
25	NR	GW		CLAY and CAL white, some sm \no H/C staining 26 ft. Heavy GR		ght brown to chalk ents, dry, crumbly, ———————	H20511-3	<0.100	<0.100	<10.0	<10.0	<100
30	NR			30 ft. No recove	ery, gravels, very had	rd drilling						
35 <i>-</i> -							- Age to get a					

Notes:

Location: 40 ft. southeast of excavated/backfilled sump and S23SB-2

Backfilled with 4 bags QuikGrout



LOG OF BORING S2SB-1

(Page 1 of 1)

Penasco Compressor Station Investigation Agave Energy

Sec 26, T18S R25E, Eddy County, NM

Sump 2 S2SB-1

Date, Time Started : 07/27/10, 1250

Hole Diameter

Drilling Method

Date, Time Complete : 07/27/10, 1400

: Hollow Stem Auger

Drilled By Sampling Method : WDC Drilling and Wells : 24-in. Splitspoon with

: 9 1/2 in.

Logged By

: downhole hammer : David Boyer, PG

	N32° 42		W104° 2	26' 55.6"	Drilling Equipment	: CME-85	Com	pany Rep	0.	: Jennifer	Knowlton	n, Agave
				Sample Type								
				SS Split Spoon ((18" or 24")			<u>66</u>				
	O)	ĺ	ĺ	CB Core Barrel ((2.5' or 5')			, y	1	<u> </u>	<u>=</u>	
	ype		0	CT Auger Cutting	gs			E)	X	X,	Α̈́	-
Depth	le J	(0	Ĭ	NR No recovery				eue	BT (6)	Ĕ)	ш̂)	418 (g)
in Feet	Sample Type	nscs	GRAPHIC		DESCRIPTIO	N	Lab No.	3enzene (mg/Kg)	Total BTE (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TPH 418.1 (mg/Kg)
-	S		0					<u> </u>	+ 5			<u> </u>
0-			T									
_ -					mpling - Knifed hole t	to 5 ft. for utility						
5-				check								
5-	_				Y CLAY, light brown t	to brown, moist,	H20485-1	<0.100	<0.100	<10.0	<10.0	<100
-	SS			soft, no H/C sta	ining of odol			1				
-		CL	1.1.	40 % 00 0 %		t di mana						
10-				limestone fragn	LY CLAY, brown, slig nents	intiy moist, smaii	H20485-2	<0.100	0.255	<10.0	<10.0	<100
-	SS	 		Approx 12 ft. Li	IMESTONE zone with	n very hard rock	-					
15		LS		LIMESTONE	ock with minimal clay,							
13		CL		16-17 ft. Clay th		_	-					
	NR			17 ft. LIMESTO			1					
-		LS										
20 –			17	20 ft. CLAY and	soft CALICHE. Clay	, brown, mottled,	H20485-3	<0.100	<0.100	<10.0	·<10.0	<100
=	SS	CL/CA		stiff, dry. Calich	ne white, no H/C stain	ing or odor	1.20,000	10.100	-0.100	-10.0	110,0	1,00
_												
25-		ļ		25 ft. LIMESTO	NE fragments with s	ome CLAY, no H/C	H20485-7	<0.100	<0.100	<10.0	<10.0	<100
-	SS	!		staining or odo	Г							
1]												
30-		LS/CL			, LIMESTONE fragm	ents with some	H20485-4	<0.100	<0.100	<10.0	<10.0	<100
]	SS		中一	CLAT, NO H/C S	staining or odor						,	
-	30								1			
35-	····	CL		35 ft. CLAY, bro	own, soft, plastic, no	H/C staining or	H20485-5	<0.100	<0.100	<10.0	<10.0	<100
-	SS			odor			1			110.0	1,0,0	1100
_	40	LS		37 ft. LIMESTO	NE rock							
40-	SS		177	40 ft SILTY CI	AY, brown, crumbly,	vellowish-rust	H20485-6	<0.100	<0.100	<10.0	<10.0	<100
-		CL		colored spots, s	slight H/C odor	yellowishirtust	1120485-0	VU. 100	V 0.100	<10.0	<10.0	< 100
-		CL										
45-		-		AF # Dark fram								
		LS		45-47 ft. Rock,	ments with clay, too l very hard drilling. At	47 ft. auger				<u> </u>		
-				refusal. Cutting	s light brown, dry, no	discoloration,						
50-				Fordur odo!			I					
										~		

Notes:

Location: 21 ft. northwest of excavated/backfilled sump and S2SB-2

Backfilled with 6 bags QuikGrout

Griswold, Jim, EMNRD

From:

Jennifer Knowlton [jenniferk@yatespetroleum.com]

Sent:

Thursday, August 05, 2010 8:13 AM

To: Subject: Griswold, Jim, EMNRD RE: Penasco CS

We completed the sampling last week. As soon as we have official results back from the lab, we will have a report to give to you.

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: <u>iknowlton@yatespetroleum.com</u> Please change your address book!

----Original Message----

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]

Sent: Thursday, August 05, 2010 8:04 AM

To: Jennifer Knowlton **Subject:** Penasco CS

Hi Jennifer,

Any progress to report regarding the investigation at the Penasco compressor station? I know y'all are still getting a fair bit of rain. Thanks.

Jim Griswold Senior Hydrologist Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

direct: 505.476.3465

email: jim.griswold@state.nm.us

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Griswold, Jim, EMNRD

From:

Jennifer Knowlton [jenniferk@yatespetroleum.com]

Sent:

Friday, July 02, 2010 2:57 PM

To:

Griswold, Jim, EMNRD

Cc:

'ballen@sesi-nm.com'; Bratcher, Mike, EMNRD; 'Matt Joy'; Swazo, Sonny, EMNRD

Subject:

RE:

The forecast is calling for over a 30%-60% chance for rain until July 8. They have changed the fireworks schedule three times now, trying to outsmart the weather man! The rain isn't so bad, but the mushrooms growing in my yard are kind of gross!

Even if it quits raining, it is so muddy that the drill rig can't get to some of the places within the site. They got two holes done on Tuesday. Because we had to release the rig, they went to another job. Put those together and it will be two weeks before they return. I have to admit we aren't happy, but what can you do? As soon as they return, I will let you know.

I am in Farmington on Tuesday and Wednesday next week and scheduled to be in the field on Friday. Hopefully, you can stop by on Thursday since that is the only day I am in the office.

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: jknowlton@yatespetroleum.com Please change your address book!

----Original Message----

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]

Sent: Friday, July 02, 2010 2:30 PM

To: Jennifer Knowlton

Cc: ballen@sesi-nm.com; Bratcher, Mike, EMNRD; Matt Joy; jknowlton@yatespetroelum.com; Swazo, Sonny,

EMNRD

Subject: RE:

2 weeks? I don't think its rained that much in SE NM since Noah and the Great Flood. How far along did they get on Tuesday? I was hoping SESI could get this investigation wrapped up with a report before the end of the month. I will be in Carlsbad next week, maybe I'll catch up with you then.

Jim

From: Jennifer Knowlton [mailto:jenniferk@yatespetroleum.com]

Sent: Friday, July 02, 2010 2:19 PM

To: Griswold, Jim, EMNRD

Cc: 'ballen@sesi-nm.com'; Bratcher, Mike, EMNRD; 'Matt Joy'; 'jknowlton@yatespetroelum.com'

Subject: RE:

Mr. Griswold,

We closed down the drilling portion of this project on Wednesday, June 30 due to weather conditions. We are forecasted to have continuing rains for two weeks due to Hurricane Alex. We are tentatively looking at restarting the drilling around July 12. If that changes, I will let you know.

Jennifer Knowlton, PE
Agave Energy Company
105 South Fourth Street
Artesia, NM 88210
575-748-4471 (work)
505-238-3588 (cell)

Note NEW EMAIL: jknowlton@yatespetroleum.com Please change your address book!

----Original Message-----From: Jennifer Knowlton

Sent: Wednesday, June 23, 2010 10:59 AM

To: 'Griswold, Jim, EMNRD'

Cc: 'ballen@sesi-nm.com'; 'Bratcher, Mike, EMNRD'; 'Matt Joy'; 'jknowlton@yatespetroelum.com'

Subject: RE: Importance: High

Mr. Griswold,

Agave will be starting the drilling as per the work plan referenced below on Tuesday, June 29, 2010. I left a voice message for Mr. Bratcher on Wednesday morning at about 10:55am. If you require any further information from me at this time, please do not hesitate to email or call me.

Jennifer Knowlton, PE Agave Energy Company 105 South Fourth Street Artesia, NM 88210 575-748-4471 (work) 505-238-3588 (cell)

Note NEW EMAIL: jknowlton@yatespetroleum.com Please change your address book!

----Original Message-----

From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]

Sent: Monday, June 14, 2010 8:59 AM

To: Jennifer Knowlton

Cc: ballen@sesi-nm.com; Bratcher, Mike, EMNRD

Subject:

Ms. Knowlton,

I have reviewed SESI's *Penasco Compressor Station Work Plan* dated 6/3/10 with respect to further investigation of soil contamination associated with sumps #2 and #23 along with the tank battery on behalf of Agave Energy at your Penasco CS (GW-125) south of Artesia. The workplan is approved. Please notify myself and Mike Bratcher in our District 2 office (575.748.1283 x108) at least 72 hours before beginning fieldwork. Retain this email in your files as no hardcopy approval letter will be sent. Thank you.

Jim Griswold Senior Hydrologist Environmental Bureau ENMRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

direct: 505.476.3465

email: jim.griswold@state.nm.us

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Griswold, Jim, EMNRD

From:

Griswold, Jim, EMNRD

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Monday, June 14, 2010 8:59 AM

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'jknowlton@yatespetroleum.com'

Cc:

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