Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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SITE CLOSURE REPORT (RP No. 1791)

STATE G LEASE AND ADJACENT ABANDONED TANK BATTERY UNITS I & J, SECTION 9, TOWNSHIP 14 SOUTH, RANGE 33 EAST LEA COUNTY, NEW MEXICO

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1.0 <u>INTRODUCTION</u>

This Site Closure Report (the "Report") is intended to demonstrate the merits of closure for two closely associated produced petroleum fluids release sites: The State G Lease (Site A) and the Adjacent Abandoned Tank Battery (Site B). This Report describes soil assessment and remedial excavation activities performed in 2012. These activities were conducted by Conestoga-Rovers & Associates (CRA), on behalf of Chevron Environmental Management Company (CEMC). Soil borings were advanced at Site A to further define the vertical extent of chloride impacts to soils. Remedial excavation activities were performed at both sites to remove hydrocarbon impacted soils.

The State G Lease (Site A) is located along Highway 457, approximately 13.7 miles north of the intersection of Highway 457 with US Highway 82, in Lea County, New Mexico. Site A also is located in Unit I, Section 9, Township 14 South, Range 33 East, and at coordinates 33° 07′ 04″ north latitude and 103° 36′ 49″ west longitude (see Figure 1A). A standing "dry hole" marker on Site A locates the plugged and abandoned (P&A′d) State G #1 well. This marker identified the operator of the lease as Tamarack Petroleum Company, Inc. Another standing marker identifies the location of a second P&A′d well designated Eclipse Oil & Gas, Inc. State G SWD #1 - also on Site A. That salt water disposal (SWD) well was associated with a 500 barrel (bbl) storage tank, which had been dismantled and removed.

The Adjacent Abandoned Tank Battery (Site B) is located approximately 730 feet west of Site A, on the east-west trending oilfield lease road abutting both sites. (Note that this oilfield lease road deadends into Highway 457 approximately 0.1 mile east of Site A, and this road is the main access to both sites.) Site B is in Unit J, Section 9, Township 14 South, Range 33 East, and at coordinates 33° 07′ 01″ north latitude and 103° 36′ 57″ west longitude (see Figure 1B). Site B was an abandoned tank battery with three tanks of unknown capacity and two heater-treaters, all of which have been dismantled and removed. A Site Details Map is provided as Figure 2.

Sites A and B are located in relatively flat, sandy and dry topography with some gently-rolling hills. The general area is rural rangeland, but numerous oil and gas production facilities dot the landscape. Native range grasses and scattered mesquite hummocks are the predominate ground cover. No surface water is mapped within a one-mile radius of either Site A or Site B. And no water well or windmill is located within 1,000 feet of either site.

CRA identified Section 9, T14S, R33E – the section containing Sites A and B -- on OCD's "Pit Rule Web Mapping Portal". A single groundwater supply well was mapped in Section 9, at the virtual center of the section. This well was designated "L04391", and its

depth to groundwater (DTW) was listed as 110 feet¹. It is notable that Unit J – the 40-acre lot containing Site B corners on the center of the section where the water well is located. Therefore, it is reasonable to deduce that the depth to groundwater at Site B and also at Site A is approximately 110 feet.

Site A is located on property owned by the State of New Mexico. The New Mexico State Land Office (SLO) is the agency charged with management of these State lands. Chevron currently is the operator on the subject property, having leasehold from the State of New Mexico titled "State Trust SWD-032 Business Lease". Chevron is reported to be the successor in interest to Gulf Oil Company on this lease. Historical records indicate the last active operator of the lease was Eclipse Oil and Gas, Inc. (Eclipse). Therefore, response to environmental impacts to the property arguably would be the responsibility of Eclipse. However, CRA understands Eclipse is now a defunct entity, through bankruptcy. Therefore, SLO would look to the current leaseholder, Chevron, to affect remediation of impacts to the property.

Site B is located on a private surface estate reported to be owned in fee by Mr. Norman Hahn.

Previous reports submitted to OCD covering this project identified the depth to groundwater as being between 70 and 80 feet bgs. These depths were inferred from the New Mexico Office of the State Engineer and the Interstate Stream Commission document titled "New Mexico Water Resource Atlas", dated December 2002. Borings were advanced at Site A to a maximum depth of 85 feet bgs during these investigations; and no boring at Site A or Site B encountered Groundwater -- even at 85 feet.

2.0 <u>REGULATORY FRAMEWORK</u>

The New Mexico Oil Conservation Division (OCD) exercises regulatory jurisdiction over oil and gas production operations in New Mexico. OCD's jurisdiction extends to regulating assessment and remediation of spills and releases of produced fluids – *e.g.*, crude oil and brines. This project was conducted under the regulatory guidance of the OCD, which requires hydrocarbon-affected soils to be remediated such that the potential for future affects to groundwater or the environment are minimized. The OCD cleanup levels are determined on a site-by-site basis, and are based on ranking criteria outlined in the OCD publication titled "*Guidelines for Remediation of Spills, Leaks, and Releases*", dated August 13, 1993 (the "1993 Guidelines"). These ranking criteria guidelines are based on three site characteristics, consisting of 1) depth–to-groundwater (from base of affected soil), 2) well head protection radius distance (useable water sources), and 3) distance to surface water. The characteristics for a given site then define the Recommended Remediation Action Levels-Soils (RRALs) for specific contaminants of concern.

The table below illustrates the ranking criteria used by OCD. Entries in the tables reflect site-specific characteristics for the State G Lease sites:

CHARACTERISTIC	SELECTION	SCORE
Depth to Groundwater ²	>100 feet	0
Well head Protection Area	>1,000 feet	0
Distance to Surface Water	>1,000 feet	0

RANKING CRITERIA AND SCORING

Total Score = 0

SOIL RECOMMENDED REMEDIATION ACTION LEVELS (RRALS)

CONTAMINANT OF CONCERN	>19 SCORE	10-19 SCORE	0-9 SCORE
Benzene (mg/kg)	10	10	10
Total BTEX (mg/kg)	50	50	50
Total TPH (mg/kg)	100	1,000	5,000

Based on the site characteristics and the 1993 Guidelines, Sites A and B have a ranking score of zero. Consequently, RRALs of 10 mg/kg for benzene, 50 mg/kg for total

² The depth to groundwater in a nearby water supply well was measured to be 110 feet bgs.

benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 mg/kg for total petroleum hydrocarbons (TPH) were adopted as remediation targets at Sites A and B.

Note that the 1993 Guidelines specify no RRALs for chloride (Cl⁻) concentrations.

3.0 HISTORY OF THE SITES

Chevron received a notification letter dated May 10, 2005 from SLO detailing a leaking storage tank at Site A. The SLO requested CEMC to conduct a Site inspection and apply appropriate corrective action measures. On May 23, 2005, CEMC submitted a New Mexico Oil Conservation Division form titled *Release Notification and Corrective Action Form C-141* to OCD's Hobbs District Office. The C-141 form reported an estimated two barrels of produced fluids released.

CRA and CEMC personnel conducted a Site visit on June 10, 2005 to evaluate surface impacts at Site A, noting surface staining at an above-ground storage tank (AST) onsite (see Figure 3A). During the Site visit, an abandoned tank battery with visible surface soil staining also was discovered west of Site A approximately 570 feet – at Site B (see Figure 3B). Operations at this adjacent abandoned tank battery were reported to be a component of the State G Lease at Site A. Although the Site B location was not addressed in the SLO correspondence referenced previously, CEMC voluntarily elected to evaluate surface impacts at the Site B location as part of the soil assessment activities planned for Site A.

3.1 <u>AUGUST 24, 2005 SAMPLING EVENT</u>

Soil assessment activities were performed on August 24, 2005. The following describes those soil assessment activities and summarizes findings:

Using air-rotary methods at Site A, White Drilling Company advanced three soil borings in the vicinity of the former tank battery where surface staining indicated a release (see Figure 3A). Soil boring SB-1 was advanced to 21 feet bgs; SB-2 was advanced to 26 feet bgs; and SB-3 was advanced to 31 feet bgs. A total of nine soil samples were collected at various depths from the three borings at Site A. The samples were screened by photoionization detector (PID) measurements of hydrocarbon vapor concentration.

In similar fashion and on even date, White Drilling Company also advanced two soil borings at Site B. The two borings were drilled where surface staining indicated a release of crude oil (see Figure 3B). Both borings SB-1 and SB-2 were advanced to 21-feet bgs. As at Site A, boring depths and locations were selected to maximize the opportunity to fully delineate the vertical and horizontal extent of hydrocarbon and chloride impacts. Seven soil samples, including a duplicate sample, were collected from varying depths within the two borings at Site B. The samples were screened by PID measurements of hydrocarbon vapor concentration. Also, a background sample of surface soil was collected in the vicinity of Site B.

The nine samples collected from Site A and the eight samples collected from Site B were submitted to Pace Analytical Services, Inc. laboratory (Pace), Saint Rose, Louisiana for analyses. These samples were analyzed for concentrations of the following ³:

- Benzene, toluene, ethylbenzene and total xylenes (BTEX), by EPA Method 8021B.
- Total petroleum hydrocarbons (TPH), specified as DRO-diesel range organics (C10-C28) and GRO-gasoline range organics (C6-C10), by EPA Method 8015 Mod.
- Chlorides (Cl⁻), by EPA Method 325.2.

Results from these laboratory analyses for Site A and Site B are presented in Tables I and II, respectively. Detections in bold print on the tables indicate concentrations above analytical quantification limits, and highlighted detections represent concentrations exceeding the OCD RRALs. OCD has not established recommended remediation action levels for chloride concentrations.

Results of the BTEX analyses are discussed in the following:

No sample submitted to the laboratory from Site A or Site B exhibited concentration results for total BTEX or for any BTEX constituent exceeding RRALs. The following results were reported by the laboratory for Site A: SB-2 [1-2 ft. bgs] registered concentrations of toluene, total xylenes and total BTEX above analytical quantification limits (see Figures 5A and 6A). And the following results were reported for Site B: Both SB-1 [1-2 ft. bgs] and SB-2 [1-2 ft. bgs] registered concentrations of ethylbenzene, total xylenes and total BTEX above analytical quantification limits (see Figures 5B and 6B). No BTEX was detected at or below the 5-6 ft. bgs interval at either Site A or Site B – confirming the very limited BTEX contamination to be confined to the upper five feet of the soil profile at both locations.

TPH exceedances and chloride analyses are discussed in the following:

- Total TPH was detected above RRALs in three samples: One shallow sample SB-2 [1-2 ft. bgs]) at Site A; and two shallow samples (SB-1 [1-2ft. bgs] and SB-2 [1-2 ft. bgs]) at Site B. No total TPH RRALs exceedances were registered at or below the 5-6 ft. bgs interval at either Site A or Site B -- confirming TPH contamination to be confined to the upper five feet of the soil profile at both locations.
- Chloride concentrations were detected above analytical quantification limits in all nine samples collected from Site A. The chloride concentrations ranged from

³ The background sample collected at Site B was analyzed only for chloride (Cl⁻) concentration.

731 mg/kg in SB-3 [30-31 ft. bgs] to 7,470 mg/kg in SB-1 [1-2 ft. bgs]. Four of the seven boring samples, including the duplicate sample, collected from Site B exhibited concentrations above analytical quantification limits. Concentrations of chloride in the borings ranged from less than 250 mg/kg in SB-1 [20-21 ft. bgs] and SB-2 [20-21ft. bgs] to 1,310 mg/kg in SB-1 [5-6 ft. bgs]. The background sample concentration was reported by the laboratory to be less than 250 mg/kg.

In summary, the analytical results demonstrate regulated concentrations of hydrocarbons (TPH) were present only in the upper 5 feet of the profile at both Site A and Site B. However, elevated chloride concentrations were present at depth at Site A.

A report titled *Soil Assessment Report and Soil Remediation Workplan* was submitted to OCD and SLO in February 2006 detailing these assessment activities and results. That report proposed excavation activities at Sites A and B. OCD subsequently requested that separate C-141 forms be submitted for Sites A & B. The new C-141 forms were submitted in October 2007. OCD followed by issuing RP #1791 for the State G Lease. No separate "RP" number was ever provided by OCD for Site B.

3.2 JUNE 10, 2008 SAMPLING EVENT

In response to OCD evaluations and comment, a follow-up soil remediation workplan, dated July 3, 2007, was submitted to OCD and SLO. Activities proposed in the workplan included:

- Excavate and remove hydrocarbon-impacted soil exhibiting concentrations above the RRALs at Site A and Site B.
- As requested by OCD, advance an additional soil boring to 50 feet bgs at Site A to further evaluate the vertical extent of chloride impacts.

Following approval of the workplan by OCD, CRA mobilized to Site A on June 10, 2008 and installed the additional soil boring to a total depth of 50 feet bgs. It was advanced in immediate proximity to the SB-1 soil boring at Site A - which exhibited the highest chloride concentrations in previous, shallower investigations. Discrete soil samples were collected at 5-foot intervals for the first 40 feet bgs. Samples from 40 to 50 feet bgs were collected at continuous 2-foot intervals to more conclusively evaluate the vertical extent of chloride impacts at depth.

The 13 soil samples collected from the 50-feet deep boring were submitted to TestAmerica Laboratories, Houston, Texas, for determination of chloride concentrations,

by Method SW-846 9056. Chloride concentrations ranged downward in the profile from 3,550 mg/kg in the sample collected at the 5-foot depth to 1,250 mg/kg at the 50-foot depth - thus exhibiting a decreasing pattern with depth (see laboratory data report in Appendix C, which is incorrectly labeled as SB-4). As requested, these analytical results were reported to OCD via email – no report was generated incorporating findings from this 50-feet-deep boring at Site A. The following tabulates the chloride concentrations reported by the laboratory for the 13 collected soil samples:

SAMPLE DEPTH	CHLORIDE
(FT. BGS)	CONCENTRATION
	(<i>MG/KG</i>)
5	3,550
10	3,780
15	4,580
20	2,360
25	2,040
30	1,390
35	2,200
40	1,930
40 - 42	1,460
42 - 44	1,500
44 - 46	990
46 - 48	1,070
48 - 50	1,250

50-FEET DEEP BORING - CHLORIDE DATA

OCD responded with comments, requiring more borings at Site A to further delineate chloride impacts vertically. At Site A and Site B, OCD also stated clay or synthetic liners would be required on the floor of the hydrocarbon excavations prior to backfilling.

4.0 <u>SITE CLOSURE ACTIVITIES IN 2012</u>

On November 22, 2011, an updated report was submitted to OCD, titled *Updated Soil Assessment and Soil Remediation Workplan*. Additional soil borings were proposed at Site A to delineate the vertical extent of chloride impacts. Excavations at Sites A and B again were proposed to remove hydrocarbon-stained surface soils, with the addition of installing synthetic liners on the floor of the excavations prior to backfilling. The work plan was approved by OCD in December 2011.

Prior to commencement of field activities, a site-specific health and safety plan (HASP) was developed by CRA. During field activities, CRA and all subcontractors onsite conducted daily tailgate safety meetings, including discussions of hazards associated with the work tasks to be performed. CRA notified both OCD and the landowner, Norman Hahn, 48-hours prior to commencing field activities.

4.1 BORING INSTALLATION AND SOIL SAMPLING

Following approval of the work plan, four soil boring locations at Site A were marked (see Figure 3). The utilities locating service was notified, and all utilities present in the area of anticipated surface intrusion were identified and marked.

On February 24, 2012, a soil boring was advanced at each of the four marked locations at Site A (see Figure 3). Using air-rotary methods, White Drilling Company installed soil borings SB-4, SB-5, SB-6 and SB-7. Each of the four borings was within the former tank battery spill area. SB-4, SB-5, and SB-6 were advanced to 80 feet bgs, while soil boring SB-7 was advanced to 85 feet bgs. As with all previous borings at Sites A and B, groundwater was not encountered in any of these four deepest borings. By examining drill cuttings, CRA continuously recorded lithology data on a boring log for each location. Copies of the Well Record and Logs are in Appendix A ⁴, and copies of the Soil Boring Logs are located in Appendix B.

A total of 64 discrete soil samples were collected at 5-foot intervals in each of the four soil borings at Site A – 16 samples from each boring. Half of each sample was enclosed in a Zip-Loc® bag; and the other half was containerized in a labeled, laboratory-supplied sample jar. Each bagged sample was allowed sufficient time for any petroleum hydrocarbon contamination to evolve volatile organic compounds (VOCs). At that point a headspace vapor concentration reading was obtained for each

⁴ The four (4) "Well Record & Log" report forms provided by White Drilling Company for SB-4, SB-5, SB-6 and SB-7 mistakenly designated the borings SB-2, SB-3, SB-4 and SB1a, respectively.

sample with a photo-ionization detector (PID). However, no PID reading exceeded zero for any of the 64 samples.

The jarred soil samples were placed immediately on ice in insulated coolers, chilling them to a temperature of approximately 4° C (40° F). The 64 samples were submitted to Xenco Laboratories, Inc. (Xenco), Odessa, Texas for analyses. Proper chain-of-custody documentation accompanied the samples. Xenco determined the chloride (Cl⁻) concentration in each soil sample by EPA Method 300. Copies of the certified analytical reports, chain-of-custody documentation, and detailed case narratives describing holding times are attached in Appendix C.

After drilling and soil sampling activities were completed, the borings were permanently plugged with a bentonite/grout mixture to prevent subsurface impacts by surface runoff.

4.2 <u>CHLORIDE (CL⁻) ASSESSMENT AT SITE A</u>

Results of chloride analyses for the 64 soil samples collected in the four soil borings at Site A are presented in Table I. The chloride concentration-by-depth trends for each of the soil borings are in Appendix D.

The following summarizes findings from these chloride contamination assessments:

- Chloride concentrations registered a marked decreasing trend with depth in SB-5, SB-6, and SB-7.
- Concentrations of chloride in SB-4 increased with depth in a narrow and low range, to a high of 414 mg/kg at the 70 to 75 feet interval. At the 75 to 80 feet interval, the concentration exhibits a decreasing trend. The overall pattern of chloride concentrations in SB-4 is very different from the pattern in the other three borings; and no readings in SB-4 approach the highest levels in the other three borings. The sum of chloride concentrations in SB-4 also was significantly less than in any of the other three borings. This suggests this boring was advanced at a point outside the major brine spill location. Therefore, possible threats to groundwater are minimal at this boring location.
- The deepest depth interval for which soil samples were analyzed was the 75 to 80 feet depth bgs. A soil sample was analyzed for the 75 to 80 feet interval in each of the four borings: SB-4, SB-5, SB-6 and SB-7. The average for the chloride concentrations in the four samples collected at the 75 to 80 feet depth was <u>231 mg/Kg</u>. Considering that the depth to groundwater in this general area is 110 feet bgs as indicated by the water supply well designated "L04391", which is

located in the same mapping unit (Unit "J") as Site B – a threat to groundwater from the brine spill at Site A is unlikely.

4.3 <u>EXCAVATION OF HYDROCARBON-CONTAMINATED SOILS AT</u> <u>SITE A AND SITE B</u>

As discussed previously, soil borings were installed at Site A and Site B on August 24, 2005. The analytical results from samples collected in these borings demonstrated that regulated concentrations of hydrocarbons (TPH) were present only in the upper 5 feet of the profile at both Site A and Site B; thus the vertical extent of the hydrocarbon-impacted soils was delineated to a depth of 5 feet or less.

Excavation activities at Sites A and B commenced July 9 and continued through July 18, 2012. Site excavation activities were performed by Entact, LLC (Entact), Friendswood, Texas, supervised by CRA. All excavated hydrocarbon-contaminated soil was placed in roll-off boxes. The horizontal extents of the two excavation sites are depicted in Figure 4.

Confirmation samples of soils were collected from the sidewalls and floors throughout These the excavation process. samples were containerized in labeled, laboratory-supplied jars. The jarred soil samples were placed immediately on ice in insulated coolers, chilling them to a temperature of approximately 4°C (40° F). The seven samples each from Sites A and B were submitted to Xenco Laboratories, Inc., Odessa, Texas for analyses. Proper chain-of-custody documentation accompanied the samples. For each soil sample Xenco determined the TPH, specified as DRO-diesel range organics (C10-C28) and GRO-gasoline range organics (C6-C10), by EPA Method 8015B Mod. Results were reported on a dry-weight basis. These data are tabulated on Table III. Copies of the certified analytical reports, chain-of-custody documentation, and detailed case narratives describing holding times are attached in Appendix C.

Approximately 52 cubic yards of hydrocarbon-contaminated soil had been excavated from Site A when competent rock was encountered at 2.5 to 3 feet bgs. At this juncture, the TPH concentration at the north floor of Site A (6,980 mg/kg) was above the OCD RRALs of 5,000 mg/kg. Similarly, competent rock was encountered at 2.5 to 3 feet bgs following excavation of 20 cubic yards of hydrocarbon-contaminated soil from Site B. Also, oilfield piping limited horizontal excavation at Site B. On July 17, 2012, Mr. Geoffrey Leking with OCD was consulted concerning the limitations on further excavation encountered at Sites A and B. He advised that further excavation was not necessary at either site.

Following this determination by OCD, synthetic liners were installed on the floor of the excavation at Site A and Site B. Clean topsoil was obtained from a neighboring landowner and trucked to the sites. Atop the synthetic liners, the two pits were backfilled with clean topsoil in compacted lifts to grade. Approximately 65 cubic yards and 35 cubic yards were used to backfill Site A and Site B, respectively. Final grading of construction-related surface areas was performed to mitigate wind erosion and facilitate re-vegetation.

The roll-off boxes containing the excavated hydrocarbon-contaminated soils were trucked to Sundance Service (Sundance), Eunice, New Mexico as a non-DOT-regulated material. The contaminated soils were disposed as RCRA-exempt waste at Sundance – a Chevron-approved waste facility. The bills of lading for the trucking are attached as Appendix E.

5.0 <u>SUMMARY OF FINDINGS</u>

The following findings of these investigations support a decision on the part of the Oil Conservation Division to grant closure for Sites A and B at the State G Lease:

- The depth to groundwater in the general area of Sites A and B is 110 feet bgs as indicated by the water supply well designated "L04391", which is located in the same mapping unit (Unit "J") as Site B. Site A is located in an adjacent mapping unit (Unit "I")
- Four soil borings, designated SB-4, SB-5, SB-6 and SB-7, were installed within the • spill area at Site A. SB-4, SB-5, and SB-6 were advanced to 80 feet bgs, while soil boring SB-7 was advanced to 85 feet bgs. As with all previous borings at Sites A and B, groundwater was not encountered in any of these four borings. Chloride concentrations registered a marked decreasing trend with depth in SB-5, SB-6, and SB-7. Concentrations of chloride in SB-4 increased with depth in a narrow and low range, to a high of 414 mg/kg at the 70 to 75 feet interval. At the 75 to 80 feet interval the concentration exhibits a decreasing trend. The overall pattern of chloride concentrations in SB-4 is very different from the pattern in the other three borings; and no readings in SB-4 approach the highest levels in the other three borings. The sum of chloride concentrations in SB-4 also was significantly less than in any of the other three borings. This suggests this boring was advanced at a point outside the major brine spill location. Therefore, possible threats to groundwater are minimal at this boring location.
- A soil sample was analyzed at the 75 to 80 feet interval at Site A in each of the four borings SB-4, SB-5, SB-6 and SB-7. The average for the chloride concentrations in these samples was <u>231 mg/Kg</u>⁵. The water table potentiometric surface in this general area is approximately 30 feet deeper (at 110 feet bgs) than the depth from which these samples were collected. This suggests that a threat to groundwater from the brine spill at Site A is vanishingly small. This conclusion is supported further by OCD's proposed 2011 remediation guidelines which would call for a chloride cleanup target of 250 mg/Kg in this circumstance.
- Soil borings were installed at Site A and Site B in 2005 to explore the horizontal and vertical extent of petroleum hydrocarbon impacts to soils. It was demonstrated in these investigations that regulated concentrations of petroleum hydrocarbons (TPH) were present only in the upper 5 feet of the profile at both Site A and Site B.

⁵ It is reasonable to average these data points, because the boring locations form a closely-spaced quadrangle spanning the brine-impacted area. This roughly spaced quadrangle is approximately 42 feet by 67 feet (42' X 67') on its sides (see Figure 3). This close spacing among sampling points supports averaging analytical results at a specific depth.

- Commencing in July, 2012, hydrocarbon-contaminated soil was excavated from Site A until competent rock was encountered at 2.5 to 3 feet bgs. At this juncture, the TPH concentration at the north floor of Site A (6,980 mg/kg) was above the OCD RRALs of 5,000 mg/kg. Similarly, competent rock was encountered at 2.5 to 3 feet bgs during excavation of hydrocarbon-contaminated soil at Site B. Also, oilfield piping limited horizontal excavation at Site B. On July 17, 2012, Mr. Geoffrey Leking with OCD was consulted concerning the limitations on further excavation encountered at Sites A and B. He advised that further excavation was not necessary at either site. Thus, OCD concluded at that point in time that adequate removal of hydrocarbon-impacted soils at the two sites had been affected.
- Following this determination by OCD, synthetic liners were installed on the floor of the excavations at Site A and Site B. Clean topsoil was obtained from a neighboring landowner and trucked to the sites. The two pits were backfilled, atop the synthetic liners, with clean topsoil installed in compacted lifts to grade. This completed remediation of hydrocarbon-impacted soils at Site A and Site B, thus completing OCD-approved closure activities at Site A and Site B.

Based on these findings, CRA recommends closure of the State G Sites A and B.

All of Which is Respectfully Submitted, CONESTOGA-ROVERS & ASSOCIATES

Hoy Bryson, DF, PG Senior Environmental Scientist

Thomas Clayon

Thomas C. Larson Midland Operations Manager

FIGURES

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SLR



042079 SLR 011206



042079-00(006)GN-DL001 DEC 15/2012



042079-00(006)GN-DL001 DEC 15/2012







042079-00(006)GN-DL001 DEC 15/2012









TABLES

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TABLE I

SOIL ANALYTICAL SUMMARY CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY SITE A NEW MEXICO STATE "G" TANK BATTERY LEA COUNTY, NEW MEXICO

			D	Total REFY TPH (8015B Modified)			Taluana	Pausana Total Yulanas TOTAL PTEY			TPH (8015B Modified)		TPH (8015B Modified)			
Sample	Depth (feet)	Sample Date	Benzene	1 oluene	Etnyi-Benzene	1 otal Aylenes	IUIAL BIEX	DRO	GRO	(GRO/DRO)	Chioriues					
ID.			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)					
			NMOCD Reco	mmended Reme	diation Action Le	evels (Total Ran	king Score = 0)									
			10				50			5.000						
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
SB-1	(1-2)	8/24/05	<0.025	<0.025	<0.025	<0.025	<0.025	1 320	<25	1 320	7 470					
50-1	(1-2)	8/24/05	<0.025	<0.025	<0.025	<0.025	<0.025	1,320	<2.5	1,520	1,400					
	(5-6)	8/24/05	<0.025	<0.025	<0.025	<0.025	<0.025	14.4	<2.5	14.4	1,490					
	(20-21)	8/24/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<2.5	<10.0	4,020					
SB-2	(1-2)	8/24/05	< 0.025	0.204	< 0.025	0.441	0.645	8,090	20,000	28,090	2,450					
	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	113	<2.5	113	2,040					
	(25-26)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.010	<2.5	<2.5	1,840					
SB-3	(1-2)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	990	<2.5	990	4,090					
	(10-11)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	12.6	<2.5	12.6	830					
	(30-31)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.010	<2.5	<2.5	731					
SB-4	(0-5)	2/24/12									18.9					
	(5-10)	2/24/12									24.3					
	(10.15)	2/24/12									70.6					
	(10-13)	2/24/12									70.0					
	(15-20)	2/24/12									96.2					
	(20-25)	2/24/12									158					
	(25-30)	2/24/12									204					
	(30-35)	2/24/12									314					
	(35-40)	2/24/12									333					
	(40-45)	2/24/12									357					
	(45-50)	2/24/12									326					
	(50-55)	2/24/12									370					
	(55-60)	2/24/12									279					
	(60-65)	2/24/12									201					
	(00-03)	2/24/12									291					
	(65-70)	2/24/12									3/1					
SB-4	(70-75)	2/24/12									414					
	(75-80)	2/24/12									395					
SB-5	(0-5)	2/24/12									365					
	(5-10)	2/24/12									189					
	(10-15)	2/24/12									437					
	(15-20)	2/24/12									868					
	(20-25)	2/24/12									990					
	(25-30)	2/24/12									627					
	(30-35)	2/24/12									414					
	(36-35)	2/24/12									411					
	(33-40)	2/24/12									411					
	(40-45)	2/24/12									373					
	(45-50)	2/24/12									380					
	(50-55)	2/24/12									641					
	(55-60)	2/24/12									500					
	(60-65)	2/24/12									463					
	(65-70)	2/24/12									398					
	(70-75)	2/24/12									428					
CP ((75-80)	2/24/12									1 110					
50-0	(0-3)	2/24/12									1,110					
	(5-10)	2/24/12									1,530					
	(10-15)	2/24/12									1,170					
	(15-20)	2/24/12									965					
	(20-25)	2/24/12									1,040					
	(25-30)	2/24/12									857					
	(30-35)	2/24/12									886					
	(35-40)	2/24/12									934					
	(40-45)	2/24/12									716					
SB-6 (Cont.)	(45-50)	2/24/12									297					
	(50-55)	2/24/12									200					
	(50-55)	2/24/12									207					
11	(55-60)	2/24/12									10.2					

TABLE I

SOIL ANALYTICAL SUMMARY CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY SITE A NEW MEXICO STATE "G" TANK BATTERY LEA COUNTY, NEW MEXICO

C			Bouzono	Toluene	Fthul_Bouzono	Total Yulones	TOTAL BTEX	TP	Chlorides			
Sample ID	Depth (feet)	Sample Date	Denzene	I of a check		Totut Aytenes	IOIAL BILA	DRO	GRO	(GRO/DRO)	emoriaes	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			NMOCD Reco	ommended Reme	diation Action Le	evels (Total Rani	king Score = 0)					
			10				50			5,000		
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
	(60-65)	2/24/12									97	
	(65-70)	2/24/12									31	
	(70-75)	2/24/12									18.2	
	(75-80)	2/24/12									18.1	
SB-7	(0-5)	2/24/12									432	
	(5-10)	2/24/12									832	
	(10-15)	2/24/12									1,650	
	(15-20)	2/24/12									1,500	
	(20-25)	2/24/12									1,460	
	(25-30)	2/24/12									1,080	
	(30-35)	2/24/12									980	
	(35-40)	2/24/12									972	
	(40-45)	2/24/12									1,000	
	(45-50)	2/24/12									975	
	(50-55)	2/24/12									1,310	
	(55-60)	2/24/12									1,190	
	(60-65)	2/24/12									1,040	
	(65-70)	2/24/12									348	
	(70-75)	2/24/12									164	
	(75-80)	2/24/12									154	

Notes:

1. BTEX analyses by EPA Method 8021B 2. TPH analyzed by EPA Method 8015B Mod 3. Chlorides analyzed by EPA Method 325.2

Chorace analyzed by Er A method 325.2
Bold concentrations above lab reporting limits
Highlighted cells indicated concentrations above RRALs

TABLE II

SOIL ANALYTICAL SUMMARY CHEVRON ENVIRONMENTAL MANAGEMMENT COMPANY SITE B ADJACENT ABANDONED TANK BATTERY LEA COUNTY, NEW MEXICO

Samula		Samula	Bonzono	Toluono	Ethyl-	Total TOTAL		ТРН	Chloridae		
Sumple	Depth (feet)	Sumple	Denzene	Totuene	Benzene	Xylenes	BTEX	DRO	GRO	(GRO/DRO)	Chioriaes
ID		Dute	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	NMOCD Recommended Remediation Action Levels (Total Ranking Score = 0)										
			10				50			5000	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB1	(1-2)	8/24/05	< 0.025	< 0.025	0.193	0.416	0.609	25,100	23,300	48,400	<1000
	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	145	<2.5	145	1,310
	(20-21)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	15.3	<2.5	15.3	<250
SB2	(1-2)	8/24/05	< 0.025	< 0.025	0.141	0.793	0.934	5,730	30,200	35,930	317
	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	253	<2.5	253	584
Duplicate	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	331	<2.5	331	693
	(20-21)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.010	<2.5	<2.5	<250
Background		8/24/05	NS	NS	NS	NS	NS	NS	NS	NS	<250

Notes:

- 1. BTEX analyses by EPA Method 8021B.
- 2. TPH analyzed by EPA Method 8015B Mod.
- 3. Chlorides analyzed by EPA Method 325.2
- 4. Bold concentrations above lab reporting limits.
- 5. Highlighted cells indicated concentrations above RRALs
- 6. NS Not sampled

Page 1 of 1

TABLE III

SOIL ANALYTICAL SUMMARY CEMC EXCAVATION SITE A AND B NEW MEXICO STATE G TANK BATTERY LEA COUNTY, NEW MEXICO

				TI	Percent		
Sample ID	Date	Depth	Chlorides	DRO	GRO	(GRO/DRO)	Moisture
		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(%)
Site A - NW Wall	7/10/2012	0-2.5	1,210	941	<17.0	941	11.9
Site A - NE Wall	7/10/2012	0-2.5	377	925	<16.3	925	8.15
Site A - SW Wall	7/11/2012	0-2.5	685	1410	<83.3	1410	10.3
Site A - SW Wall	7/13/2012	0-2.5	2,820	548	<15.9	548	5.95
Site A - SE Wall	7/11/2012	0-2.5	1,190	272	<18.5	272	19.2
Site A - N Floor	7/11/2012	0-2.5	1,470	6980	<97.5	6980	23.2
Site A - S Floor	7/11/2012	0-2.5	794	598	<17.4	598	14
Site B - NW Wall	7/11/2012	0-2.5	78.1	809	<16.7	809	10.1
Site B - NE Wall	7/11/2012	0-2.5	53.2	1710	<82.7	1710	9.77
Site B - NE Wall	7/13/2012	0-2.7	40	1020	<16.0	1020	6.22
Site B - SW Wall	7/11/2012	0-2.5	293	2940	18.5	2958.5	7.83
Site B - SW Wall	7/13/2012	0-2.6	430	1060	19.5	1060	6.14
Site B - SE Wall	7/11/2012	0-2.5	106	820	<17.1	820	12.5
Site B - Floor	7/11/2012	0-2.5	111	580	25.4	605.4	12.3

Notes:

1. TPH analyzed by EPA Method 8015B Mod.

2. Bold concentrations above lab reporting limits.

3. Highlighted cells indicate concentrations above RRALs.

APPENDICES

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APPENDIX A

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WELL RECORD & LOG

MAY 19 2012 Midland

OFFICE OF THE STATE ENGINEER

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NO	POD NUME	3ER (WEL	L NUI	MBER)							OSE FILE NUN	IBER(S)			
OCATI	WELL OWN	ner nam n Envii	e(s) ronn	nental Man	agem	nent Co.					PHONE (OPTIC	DNAL)			
TTT	WELL OW	NER MAII		ADDRESS	00.1/	1					CITY STATE			77	ZIP 7002
IMO										Tiouston				002	
ILAN	WELI LOCATI	L ON	LATITUDE		DEG	GREES MINUTES SECONDS 33 7 1.90		•ds .90 n	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		COND				
ER	(FROM C	PS)	LONG	GITUDE		103		36	48	8.70 W	* DATUM REC	UIRED: WGS 84			18 A
1. GEN	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS State G														
	(2.5 ACI	RE)	(10 ACRE)	(4	0 ACRE)		(160 ACRE))	SECTION		TOWNSHIP		RANGE	17 FAST
AL	Ļ	/4		1/4		1/4		1⁄4			9	14	SOUTH	33	west
PTION	SUBDIVISION NAME LOT NUMBER							IBER	BLOCK NUMBER		UNIT/TRA	ст & J			
2.0	HYDROGR	APHIC SU	JRVEY	Y								MAP NUMBER		TRACT NU	JMBER
	LICENSE N	UMBER		NAME OF LICE	INSED D	RILLER						NAME OF WELL DI	RILLING COM	IPANY	
	WD-	-1456	3	John W. W	/hite							White Drilling	Compar	ıy, Inc.	
z	DRILLING 02/2	startei 2 4/12	>	DRILLING END 02/24/12	DED 1 2	BORE HOLE D WELL (FI) BORE HOLE D 80.			LE DEPTH (FT) 30.0	DEPTH WATER FIF	rst encoun Dry	TERED (FT)			
MATIC	COMPLETED WELL IS: ARTESIAN					✓ DRY HOLE		SHALLOW	/ (UNCO	NFINED)		STATIC WATER LE	vel in com Dry	PLETED WEI	LL (FT)
FOR	DRILLING	FLUID:		✓ AIR		MUD		ADDITIVE	S – SPE	CIFY:					
NI ĐN	DRILLING	METHOD	6	✓ ROTARY		HAMMER		CABLE TO	OOL	OTHE	ER – SPECIFY:				
DRILLI	DEPT FROM	TH (FT) TO	-	BORE HOL DIA. (IN)	E	CASING MATERIAL			CONNECTION TYPE (CASING)		INSIDE DIA. CASING (IN)	CASINO THICKN	G WALL IESS (IN)	SLOT SIZE (IN)	
3.					-										
													×		1
												4			
	DEPT	Ή (FT)		THICKNES	S	F	ORMA	TION DE	SCRIPT	TION OF P	RINCIPAL W	ATER-BEARING S	TRATA		YIELD
LATA	FROM	TO		(FT)			(INC	LUDE W.	ATER-	BEARING	CAVITIES OI	R FRACTURE ZON	VES)	-	(GPM)
STF			-+												
SUNG												- · · · · · · · · · · · · · · · · · · ·	2)4) (d
SEAF												Sec. Ma	1.	5	4
ER F												100	91 T		U
4. WAT	METHOD U	JSED TO	ESTIM	IATE YIELD OF	WATER	-BEARING STR	ATA					TOTAL ESTIMATE	O WELL YIEL	D (GPM)	
												P			

FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

UMP	ТҮРЕ О	F PUMP:	SUBMER	SIBLE E	☐ JET ☐ CYLINDER	☐ NO PUMP – WELL NOT EQUIPPED ☐ OTHER – SPECIFY:			
AND P	ANN	DEPTH (FT) ANNULAR FROM TO			BORE HOLE DIA. (IN)	BORE HOLE MATERIAL TYPE AND SIZE AMOUNT (CUBIC FT)			
5. SEAL	SEAL GRAVE	, AND L PACK	80.0	0.0	6.0	Bentonite Pellets	23 sacks	Hand	d Mix
	DEPT	H (FT)	THICK	NESS	(INCLU	COLOR AND TYPE OF MATERIAL ENCOUN JDE WATER-BEARING CAVITIES OR FRAC	TERED FURE ZONES)	WA BEAF	TER UNG?
	0.0	16.0	16	<u>,</u> 0	``````````````````````````````````````	Caliche			
	16.0	78.0	62	.0		Light brown sand.		T YES	 ⊡ NC
	78.0	80.0	2.	0	-	Light brown sand w/gravel.		The second secon	
					-			T YES	□ NC
ŗ								T YES	🗖 NO
MEI								YES	🗖 NO
OF								T YES	🗖 NO
FOC								□ YES	🗖 NO
GIC				·····				T YES	🗖 NO
OLO						·		☐ YES	□ NO
GE								Tes Tes	
			АТТАСН	ADDITIO	NAL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGI	C LOG OF THE WELL		
			METHOD	□ BAIL	ER 🗍 PUMP	AIR LIFT OTHER – SPECIFY	······································		
AL INFO	WELI	L TEST	TEST RESU AND A TAB	UTS - ATT	ACH A COPY OF D	ATA COLLECTED DURING WELL TESTING AND DRAWDOWN OVER THE TESTING PER	, INCLUDING START T IOD.	IME, END T	IME,
7. TEST & ADDITION	ADDITIO	NAL STATE	MENTS OR EXPL	ANATIONS:					
GNATURE	THE UN CORRE THE PE	DERSIGN CT RECOF RMIT HOI	ED HEREBY (RD OF THE AE LDER WITTIN	CERTIFIES	THAT, TO THE BE RIBED HOLE ANI AFTER COMPLETI	ST OF HIS OR HER KNOWLEDGE AND BEL D THAT HE OR SHE WILL FILE THIS WELL I DN OF WELL DRILLING: 4/20/2012	IEF, THE FOREGOING I RECORD WITH THE ST	IS A TRUE A ATE ENGIN	AND EER AN
8. SI			SIGNATUR	E OF DRI	LER	DATE			
	I								

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FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)		
FILE NUMBER	POD NUMBER	TRN NUMBER		
LOCATION			PAGE 2 OF 2	



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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7	POD NUMBER	R (WELL	NUMBER)				OSE FILE NUM	(BER(S)				
LIO.	SB-3	DNAME	(8)				PHONE (OPTIC	DNAL)				
CAT	Chevron I	Enviro	onmental Man	agement Co.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
L L	WELL OWNE	R MAILI	NG ADDRESS				CITY		STATE		ZIP	
VEL	1400 Smi	th St.,	HDU 140/19	00-1A		Houston		ΤX	77(002		
A Q	WEI 1			DEGREES	MINUTES SECO	ONDS						
LAÌ	LOCATION	N L	ATITUDE	33	7	1.90 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SEC	OND		
ERA	(FROM GPS	5)	ONGITUDE	103	36 4	8.70 W	* DATUM REQ	QUIRED: WGS 84				
GEN	DESCRIPTIC	N RELAT	TING WELL LOCATI	ON TO STREET ADDRE	SS AND COMMON LAND	MARKS						
1. 0	State G											
	(2.5.ACPE	<u> </u>		(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP		RANGE		
د	1/.			1/.	1/2		9	14	NORTH	33	EAST	
NO	5UBDIVISIO	N NAME	/4	/4	, _	LOT NUM	IBER	BLOCK NUMBER	Libeom	UNIT/TRAC	CT	
PTIC										1	& J	
2.0	HYDROGRA	PHIC SUF	RVEY				MAP NUMBER		TRACT NU	MBER		
	LICENSE NU	MBER	NAME OF LIC	ENSED DRILLER				NAME OF WELL DE		APANY		
	WD-1	456	John W. V	Vhite		DODDUG			Compar	IY, INC.		
	DRILLING ST	TARTED	DRILLING EN	DED DEPTH OF CON	IPLETED WELL (FT)	BORE HO	BO 0	DEPTH WATER FO		(IEKED (I'I')		
ION	02/2-	ti 1 Z.	02/24/1					STATIC WATER LE	VEL IN COM	PLETED WEL	L (FT)	
MAT	COMPLETED	WELL I	S: ARTESIA	N ORY HOLE	SHALLOW (UNC	CONFINED)	Dry					
FOR	DRILLING F	LUID:	🖌 AIR	MUD	ADDITIVES – SP	ECIFY:						
G IN	DRILLING M	ETHOD:	🗸 ROTARY	HAMMER	CABLE TOOL	отн	ER - SPECIFY:					
TIN	DEPTH	I (FT)	BORE HO	LE	CASING	CON	ONNECTION INSIDE DIA. CASING WALL					
DRII	FROM	ТО	DIA. (IN)N	IATERIAL	TYPE	(CASING)	CASING (IN)	THICK	NESS (IN)	SIZE (IN)	
		. (5.9)				DTION OF I					VIELD	
×	DEPTR EPOM	4 (FT) TO	THICKNE (FT)	SS	ORMATION DESCRI (INCLUDE WATE)	R-BEARING	G CAVITIES O	R FRACTURE ZOI	NES)		(GPM)	
RAT	rKOW											
ST												
NIZ												
EAF								18 - 1 		1		
ERE									<u> </u>			
VAT	METHOD U	SED TO E	ESTIMATE YIELD O	F WATER-BEARING STI	RATA			TOTAL ESTIMATE	D WELL YIE	LD (GPM)		
4. V												
		DIFFE						WELL RECT	ORD & LO	G (Version 6	(9/08)	

FOR OSE INTERNAL USE		WELLE RECORD & EOO	(10000000)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 1 OF 2

UMP	TYPE O	F PUMP:		E	CYLINDER		·		
AND P	ANINI	TLAD	DEPTH FROM	I (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH PLACE	OD EME
5. SEAL	SEAL GRAVE	AND L PACK	80.0	0.0	6.0	Bentonite Pellets	23 sacks	Hand Mix	
	DEPT	H (FT)	TUICK	NIEGO			TEDED		
	FROM	то	(F)	ness [)	(INCLU	IDE WATER-BEARING CAVITIES OR FRAC	TURE ZONES)	BEAF	TEF RIN(
	0.0	16.0	16	.0		Caliche.		The YES	6
	16.0	78.0	62	.0		Light brown sand.		□ YES	6
	78.0	80.0	2.	0		Light brown sand w/gravel.		T YES	
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	·····							☐ YES	٦
		I	ATTACH	ADDITION	NAL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOG	IC LOG OF THE WELL	I	
	[METHOD:	BAIL	ER 🗍 PUMP	AIR LIFT OTHER – SPECIFY:			
T INF(WELL	. TEST	TEST RESU AND A TAE	LTS - ATTA	ACH A COPY OF D ING DISCHARGE A	ATA COLLECTED DURING WELL TESTING AND DRAWDOWN OVER THE TESTING PE	, INCLUDING START T RIOD.	IME, END T	IME
DDITIONA	ADDITION	VAL STATE	MENTS OR EXPL	ANATIONS:					
7. TEST & A									
VATURE	THE UN CORREC THE PER	DERSIGN CT RECOR RMIT HOL	ED HEREBY (CD OF THE AE LDER WITHIN	CERTIFIES OVE DESC 20 DAYS	THAT, TO THE BE RIBED HOLE AND FTER COMPLETIO	ST OF HIS OR HER KNOWLEDGE AND BEI) THAT HE OR SHE WILL FILE THIS WELL)N OF WELL DRILLING:	JEF, THE FOREGOING RECORD WITH THE ST	IS A TRUE A ATE ENGIN	AND EER
SIGN				K		4/20/2012			
%			SIGNATUR	F OF DRI	LER	DATE			

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FOR OSE INTERNAL USE	WELL RECORD & LOG	(Version 6/9/08)	
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2



WELL RECORD & LOG

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N	POD NUME	ER (WEL	L NUMBER)	ануун Алан Санан Алан Санан		· · · · · · · · · · · · · · · · · · ·	OSE FILE NUM	MBER(S)				
CATIC	WELL OWN	IER NAM	_{E(S)} conmental Mar	agement Co.		······	PHONE (OPTI	ONAL)				
VELL LC	WELL OWN 1400 Sr	NER MAIL	ING ADDRESS	00-1A			CITY STATE Houston TX			77	ZIP 002	
AL AND V	WELL	, ON	LATITUDE	DEGREES 33	minutes sec 7	conds 1.90 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
ENER	(FROM G	iPS)	LONGITUDE	103	36	48.70 W	* DATUM REG	QUIRED: WGS 84				
I. GI	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS State G											
_	(2.5 ACF	E)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP	NORTH	RANGE	🖌 EAST	
DNAL	SUBDIVISI	4 ON NAME	1/4	1/4	ll⁄4	LOT NUM	9 (BER	14 BLOCK NUMBER	🛛 золтн	UNIT/TRA	CT WEST	
DITIC										I	& J	
5.0	HYDROGRAPHIC SURVEY							MAP NUMBER	,	TRACT NU	IMBER	
	LICENSE N	UMBER	NAME OF LICI	ENSED DRILLER				NAME OF WELL DR		IPANY		
	DRILLING	STARTED	DRILLING ENI	DED DEPTH OF COM	PLETED WELL (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	STENCOUN	TERED (FT)		
Z	02/2	24/12	02/24/1:	2		8	30.0		Dry			
RMATI	COMPLETI	ED WELL	IS: ARTESIAN	N I DRY HOLE	SHALLOW (UN	CONFINED)	STATIC WATER LEVEL IN COMPLETED WELL (FT Dry				.L (FT)	
[NFO]	DRILLING	FLUID:	✓ AIR	MUD	ADDITIVES – S	PECIFY:						
ING.	DRILLING	METHOD	: 🗹 ROTARY	HAMMER	CABLE TOOL		ER ~ SPECIFY:					
DRILL	FROM	H (FT) TO	BORE HOI DIA. (IN)	E (CASING ATERIAL	CONI TYPE	NECTION (CASING)	INSIDE DIA. CASING (IN)	CASINO THICKN	3 WALL IESS (IN)	SLOT SIZE (IN)	
6												
ĹĂ	DEPT	H (FT) TO	THICKNES (FT)	SS F	ORMATION DESCRI (INCLUDE WATE	PTION OF P R-BEARING	RINCIPAL W	ATER-BEARING S R FRACTURE ZON	TRATA IES)		YIELD (GPM)	
TRAT	1110111				``							
ING S								• • • • •				
3EAR										· · · _ · · · · · · · · · · · · · · · ·		
rer f									1997 - 19			
4. WA'	METHOÐ (ISED TO I	ESTIMATE YIELD OF	WATER-BEARING STRA	ATA			TOTAL ESTIMATEI) WELL YIEI	.D (GPM)		
								•				

FOR OSE INTERNAL USE		WELL RECORD & LOG	(Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 1 OF 2

~	TYPE O	F PUMP:		RSIBLE		NO PUMP – WELL NOT EQUIPPED)			
M				IE		OTHER – SPECIFY:	- -			
AND F	A NINI	ILAD	DEPTH FROM	H (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH	OD OF MENT	
IAL	SEAL	, AND	80.0	0.0	6.0	Bentonite Pellets	23 sacks	Hand	l Mix	
5. SE	GRAVE	L PACK								
	DEPT FROM	H (FT) TO	THICK (F	(NESS T)	CI (INCLUI	OLOR AND TYPE OF MATERIAL ENCOUN DE WATER-BEARING CAVITIES OR FRAC	TERED TURE ZONES)	WATER BEARING?		
	0.0	16.0	16			Caliche		T YES	2 NO	
	16.0	78.0	62	2 O		Light brown sand			 ⊡ N0	
	78.0	80.0	2	0		Light brown sand w/gravel				
					-					
VELI					-			☐ YES		
OF V										
0 0 0			<u> </u>							
CL	-				•			□ YES	 א ם	
00								□ YES		
EOI								 □ YES		
6.9										
								VES		
								T YES		
					-			VES		
								T YES		
								T YES		
		1	ATTACH	H ADDITION	AL PAGES AS NEE	DED TO FULLY DESCRIBE THE GEOLOG	IC LOG OF THE WELL			
			METHOD		ER PUMP	AIR LIFT OTHER - SPECIFY				
NFO	WELL	_ TEST	TEST RESI	ILTS - ATT	ACH A COPY OF DA	TA COLLECTED DURING WELL TESTING	INCLUDING START	TIME END T	ME	
AL I			AND A TAI	BLE SHOW	NG DISCHARGE A	ND DRAWDOWN OVER THE TESTING PER	RIOD.	, <u>E</u> , E, E	,	
ION/	ADDITION	NAL STATE	MENTS OR EXPI	LANATIONS:						
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& AD										
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7. TE										
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Æ	THE UN	DERSIGN	ED HEREBY	CERTIFIES	THAT, TO THE BES	T OF HIS OR HER KNOWLEDGE AND BEL THAT HE OR SHE WILL FILE THIS WELL	IEF, THE FOREGOING	IS A TRUE A	ND EER ANI	
TUF	THE PE	RMIT HOI	DER WITTIN	N TO DAYS A	AFTER COMPLETIO	N OF WELL DRILLING;	ALCOND WITH HIE 3	ATA DE L'ENGLIN.	CENT FUN	
GNA		<			ar.	4/20/2012				
8 SI			87	nr.or	I ED					
	ł		SI€iNATÉD	REOF DRIE	LEK	DATE				

FOR OSE INTERNAL USE	WELL RECORD & LOG (Version 6/9/08)				
FILE NUMBER	POD NUMBER	TRN NUMBER			
LOCATION			PAGE 2 OF 2		



WELL RECORD & LOG

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	POD NUMB	BER (WE	LL NU	MBER)				OSE FILE NUM	ABER(S)							
NOL	SB-1a															
CAT	WELL OWN	VER NAM	ME(S)	nontal Man	agoment Co			PHONE (OPTI	ONAL)							
TO	WELLOWN							CITY		STATE		7(0				
ELI	1400 Sn	nith S	st., H	DU 140/19	00-1A			Houston		TX	77	002				
DW					DECREES	MINUTES SECO		1								
AN.	WELL	, ON			22	7	190 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SEC	COND					
RAI	(FROM G	iPS)	LATI		102		970 W	* DATUM REG	QUIRED: WGS 84							
ENE	DECODIDT		LON	GITUDE	IUJ		0.70 "					<u> </u>				
1. G	State G			J WELL LUCAT	ON TO STREET ADDRE	SS AND COMMON LAND	MARKS									
	(2.5 ACR	LE)	((10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP		RANGE	Z FAST				
AL	2	4		1⁄4	1/4	1/4		9	14	SOUTH	33	west				
ION	SUBDIVISI	ON NAM	Œ				LOT NUM	IBER	BLOCK NUMBER		UNIT/TRA	СТ				
OPT	INCOROLOGI	- NRO A									1	& J				
5.	HYDROGRA	APHIC S	UKVE	Ŷ					MAP NUMBER		TRACTINU	MBEK				
	LICENSE N	UMBER		NAME OF LICE	INSED DRILLER				NAME OF WELL DE	RILLING COM	I IPANY					
	WD-	1456		John W. W	/hite				White Drilling	Compar	iy, Inc.					
	DRILLING	STARTE	D	DRILLING ENE	DED DEPTH OF COM	PLETED WELL (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIF	R\$T ENCOUN	TERED (FT)					
NO	02/24/12 02/24/12 8					35.0		Dry								
RMATI	COMPLETE	ED WELI	L 1S:	ARTESIAN	DRY HOLE	SHALLOW (UNC	ONFINED)		STATIC WATER LEVEL IN COMPLETED V							
NFOI	DRILLING	FLUID:		✓ AIR	MUD	ADDITIVES - SP	ECIFY:									
NG IL	DRILLING	METHO	D:	ROTARY	HAMMER	CABLE TOOL	🗌 отна	HER – SPECIFY:								
LLIN	DEPT	H (FT)		BORE HOL	E	CASING	CON	NECTION	INSIDE DIA.	CASING	3 WALL	SLOT				
DRII	FROM	TC)	DIA. (IN)	M	ATERIAL	TYPE	(CASING)	CASING (IN)	THICKN	IESS (IN)	SIZE (IN)				
3.																
										+						
¥.	DEPT FROM	н (FT) тс		THICKNES (FT)	S F	URMATION DESCRIF (INCLUDE WATER	TION OF P -BEARING	RINCIPAL W	ATER-BEARING S R FRACTURE ZON	TRATA		Y1ELD (GPM)				
RAJ	11000	10	,			,						、 ,				
S																
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EAL									5. 							
ER F																
4. WAT	METHOD U	JSED TO	ESTIN	ATE YIELD OF	WATER-BEARING STR	ATA			TOTAL ESTIMATEI	D WELL YIEL	.D (GPM)					
		INTE	DNIAT	USE					WELL BECO		(Voraion 6)	20/08)				

TOR ODE INTERINE COE		WELL RECORD & LOG	(version 0/9/00)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 1 OF 2

	TYPE O	F PUMP:	SUBMEI	RSIBLE E	☐ JET ☐ CYLINDER	☐ NO PUMP – WELL NOT EQUIPPED ☐ OTHER – SPECIFY:			
ξſ			DEPTI	H(FT)	BORE HOLE	MATERIAL TYPE AND 9722	AMOUNT	METH	OD OF
	ANNI	JLAR	FROM	то	DIA. (IN)	MATERIAL TIPE AND SIZE	(CUBIC FT)	PLACE	EMENT
	SEAL GRAVE	, AND L PACK	85.0	0.0	6.0	Bentonite Pellets	25 sacks	Hand	d Mix
	DEPTI	H (FT)	THICK	NESS	CC	OLOR AND TYPE OF MATERIAL ENCOUN	TERED	WA	TER
	FROM	то	(F	Г)	(INCLUE	DE WATER-BEARING CAVITIES OR FRAC	TURE ZONES)	BEAF	RING?
	0.0	16.0	16	.0		Caliche.		□ YES	🗹 NO
	16.0	78.0	62	.0		Light brown sand.		☐ YES	🗹 NO
78.0 85.0 7.0 Light brown sand w/gravel.							🗖 YES	🖸 NO	
								🗖 YES	D NO
								The YES	🗖 NO
								T YES	🗖 NO
								T YES	🗖 NC
ξ.							¢	VES	🗖 NC
								🗖 YES	🗖 NC
								YES	THOD OF ACEMENT land Mix WATER EARING? SS 2 NO SS 2 NO SS 2 NO SS 2 NO SS 1 NO
į								T YES	
5								🗖 YES	🗖 NC
								T YES	🗖 NC
								☐ YES	🗆 NC
								YES	🗖 NC
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								T YES	🗖 NO
			ATTACH	I ADDITION	IAL PAGES AS NEE	DED TO FULLY DESCRIBE THE GEOLOGI	C LOG OF THE WELL		
			METHOD:	🗖 BAILE	ER 🗌 PUMP 🛛	AIR LIFT OTHER – SPECIFY:			
	WELL	. TEST	TEST RESU AND A TAP	ILTS - ATTA BLE SHOWI	ACH A COPY OF DA' NG DISCHARGE AN	TA COLLECTED DURING WELL TESTING ID DRAWDOWN OVER THE TESTING PER	, INCLUDING START T IOD.	TIME, END T	IME,
į	ADDITION	AL STATE	MENTS OR EXPL	ANATIONS:					
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	THE UNI CORREC THE PER	DERSIGN CT RECOR AMIT HOL	ED HEREBY (D OF THE AE DER WITTHY	CERTIFIES SOVE DESC 20 DAYSA	THAT, TO THE BEST RIBED HOLE AND T FTER COMPLETION	I' OF HIS OR HER KNOWLEDGE AND BEL FHAT HE OR SHE WILL FILE THIS WELL F N OF WELL DRILLING:	IEF, THE FOREGOING RECORD WITH THE ST	IS A TRUE A ATE ENGINI	IND EER ANE
				K	9997° -	4/20/2012		METHOD OF PLACEMENT Hand Mix WATER BEARING? YES NO YES NO	
51						······································			

FOR OSE INTERNAL USE	FOR OSE INTERNAL USE							
FILE NUMBER	FILE NUMBER POD NUMBER							
LOCATION			PAGE 2 OF 2					

APPENDIX B

.

	SOIL BORING LOG roject: 42079 Date: 2/24/2012															
Project: Client:	42079 CEMC					r	No.	SB-4			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:		42079 2/24/20 White I Bo Atki Air Rot Desiree	012 Drilling ns ary e Crenshaw		
				^						1						
	Res	ults Report	ed in mg/kc	A		FIE			_	ŋ			DURING	DATA		
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	Photo- Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Leve	Screen Interv	Start Time:	9:50 a	m	Finish Time	: 10:00 am	
- - - -					18.9	0		- 5			Caliche					
- - -					24.3	0	X	_ 10								
- - - -					70.6	0	X	- 15								
- - - -					96.2	0	X	- 20			Light brown sa	and				
- - - -					158	0	X	- 25								
- - - -					204	0	X	- 30								
- - -					314	0	X	- 35								
- - -					333	0	$\left \right\rangle$	40								
	Sampling	Interval			So	Stratification is Ir bil Classification Bi	iferre ased	40 ed And May No on Visual-Man	t be I ual F	Exac	t. Idure				Water First Note	∍d le
									S						page 1 of	2

	oject: 42079 File No.: 42079 Date: 2/24/2012															
Project: Client:	42079 CEMC					ı	٩o.	SB-5			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:		42079 2/24/20 White I Bo Atki Air Rot Desiree	012 Drilling ns ary e Crenshaw		
	LAB	ORATORY	TEST DAT	A		FIF	ID'			Ι			BORING			
	Res	ults Report	ed in mg/kg	1						val			Dorario	<i>Dittil</i>		
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	Photo- Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Leve	Screen Inter	Start Time:	10:20 a	am	Finish Time	: 10:38 am	
					365	0	X	- 5			Caliche					
- - - -					189	0	X	- 10								-
- - - -					437	0	X	- 15								-
- - - -					868	0	X	- 20			Light brown sa	and				- - - -
- - -					990	0	X	- 25								-
- - - -					627	0	X									-
- - -					414	0	X									-
- - - -					411	0	X									-
	Sampling	Interval			So	Stratification is Ir bil Classification Bi	iferre ased	40 ed And May No on Visual-Man	t be I ual F	Exac Proce	t. dure				Water First No	nple
									S						page 1 d	of 2

	roject: 42079 File No.: 42079 Date: 2/24/2012														
Project: Client:	42079 cemc					I	No.	SB-6			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:	42079 2/24/20 White I Bo Atk Air Rot Desire	012 Drilling ins ary e Crenshaw		
	LAB	ORATORY	TEST DAT	A		FIE	LD I	DATA				BORING	G DATA		
	Res	ults Report	ed in mg/ko	9		Photo-	g		vel	erval					
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	lonization Detection Reading (ppm)	Samplin	Depth (feet)	Water Le	Screen Inte	Start Time:	10:40 am	Finish Time	: 11:04 am	
- - - -					716	0	M	- 45							
					297	0	X	- 50							
					209	0	X	- 55							
					10.2	0	X	- 60			Light Brown Sand				
					97	0	X	- 65							
- - -					31	0	X	- 70							
- - -					18.2	0	M	- 75							
- - - -					18.1	0	X	80 -			Light Brown San	d with gra Total	vel Depth = 80	feet	
	Sampling	Interval			So	Stratification is Ir bil Classification B	nferre ased	ed And May No on Visual-Man	t be I ual F	Exact Proce	t. dure			Water First Note	⊭d le
									Q					page 1 of	2

	oject: 42079 File No.: 42079 Date: 2/24/2012													
Project: Client:	42079 CEMC					I	No.	SB-7			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:		42079 2/24/2012 White Drilling Bo Atkins Air Rotary Desiree Crenshaw	
	LAB	ORATORY	TEST DAT	A		FIE	LD	DATA					BORING DATA	
	Res	ults Report	ed in mg/kg	1						val				
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	Photo- Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Leve	Screen Inter	Start Time:	9:10 an	n Finish Time: 9:41 am	
-					432	0	X	- 5			Caliche			
- - - -					832	0	X	- 10						-
- - - -					1,650	0	X	- 15						-
- - -					1,500	0	X				Light brown sa	and		
- - -					1,460	0	X							
- - -					1,080	0	\mathbb{N}							-
- - -					980	0	$\left \right\rangle$							-
- - - -					972	0	$\left \right\rangle$							-
	Sampling	Interval			So	Stratification is Ir bil Classification Bi	nferre	40 ed And May No on Visual-Man	t be I ual F	Exac Proce	t. dure		Water First No Analyzed San	oted nple
									\mathbf{i}				page 1	of 2

APPENDIX C

ANALYTICAL REPORT

JOB NUMBER: 355329 Project ID: STATE G LEASE NM 042079

Prepared For:

Conestoga-Rovers and Associates 2135 S. Loop 250 West Midland, TX 79707

Attention: Todd Wells

Date: 06/26/2008

Signature

- Name: Sachin G. Kudchadkar
- Title: Project Manager III
- E-Mail: sachin.kudchadkar@testamericainc.com

Date

TestAmerica Laboratories, Inc 6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

SAMPLE INFORMATION Date: 06/26/2008

Job Number.: 355329Project Number....: 99007835Customer...: Conestoga-Rovers and AssociatesCustomer Project ID....: STATE G LEASE NM 042079Attn.....: Todd WellsProject Description...: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355329-1	SB-4 5'	Soil	06/02/2008	14:45	06/10/2008	09:35
355329-2	SB-4 10'	Soil	06/02/2008	14:50	06/10/2008	09:35
355329-3	SB-4 15'	Soil	06/02/2008	14:55	06/10/2008	09:35
355329-4	SB-4 20'	Soil	06/02/2008	15:00	06/10/2008	09:35
355329-5	SB-4 25'	Soil	06/02/2008	15:05	06/10/2008	09:35
355329-6	SB-4 30'	Soil	06/02/2008	15:10	06/10/2008	09:35
355329-7	SB-4 35'	Soil	06/02/2008	15:15	06/10/2008	09:35
355329-8	SB-4 40'	Soil	06/02/2008	15:20	06/10/2008	09:35
355329-9	SB-4 40-42'	Soil	06/02/2008	14:25	06/10/2008	09:35
355329-10	SB-4 42-44'	Soil	06/02/2008	14:30	06/10/2008	09:35
355329-11	SB-4 44-46'	Soil	06/02/2008	14:35	06/10/2008	09:35
355329-12	SB-4 46-48'	Soil	06/02/2008	15:40	06/10/2008	09:35
355329-13	SB-4 48-50'	Soil	06/02/2008	15:45	06/10/2008	09:35

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 5' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:45 Sample Matrix....: Soil Laboratory Sample ID: 355329-1 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QF	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	3550				40	10	mg/Kg	400631		06/23/08 1533	sur
				İ								
				İ								

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 10' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:50 Sample Matrix....: Soil Laboratory Sample ID: 355329-2 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	3780				40	10	mg/Kg	400631		06/23/08 1620	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 15' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:55 Sample Matrix....: Soil Laboratory Sample ID: 355329-3 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	4580				40	10	mg/Kg	400631		06/23/08 1636	sur
				İ								

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 20' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:00 Sample Matrix....: Soil Laboratory Sample ID: 355329-4 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME 1	TECH
SW-846 9056	Chloride, Soil	2360				40	10	mg/Kg	400631		06/23/08 1651 s	sur
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Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 25' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:05 Sample Matrix....: Soil Laboratory Sample ID: 355329-5 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME T	FECH
SW-846 9056	Chloride, Soil	2040				40	10	mg/Kg	400631		06/23/08 1707 s	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 30' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:10 Sample Matrix....: Soil Laboratory Sample ID: 355329-6 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1390				40	10	mg/Kg	400631		06/23/08 1723	sur
							ĺ					

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 35' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:15 Sample Matrix....: Soil Laboratory Sample ID: 355329-7 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FI	LAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	2200				40	10	mg/Kg	400631		06/23/08 1809	sur
				ĺ								

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID:	SB-4 40'
Date Sampled:	06/02/2008
Time Sampled:	15:20
Sample Matrix:	Soil

Laboratory Sample ID: 355329-8 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QFLA	AGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1930				40	10	mg/Kg	400631		06/23/08 1825	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 40-42' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:25 Sample Matrix....: Soil Laboratory Sample ID: 355329-9 Date Received.....: 06/10/2008 Time Received.....: 09:35

SW-846 9056 Chloride, Soil 1460 40 10 mg/Kg 400631 0	23/08 1841 sur
	1

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 42-44' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:30 Sample Matrix....: Soil Laboratory Sample ID: 355329-10 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1500			40	10	mg/Kg	400631		06/23/08 1856	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 44-46' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:35 Sample Matrix....: Soil Laboratory Sample ID: 355329-11 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	990				40	10	mg/Kg	400714		06/24/08 1923	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 46-48' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:40 Sample Matrix....: Soil Laboratory Sample ID: 355329-12 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1070			40	10	mg/Kg	400714		06/24/08 2010	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 48-50' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:45 Sample Matrix....: Soil Laboratory Sample ID: 355329-13 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME TECH
SW-846 9056	Chloride, Soil	1250			40	10	mg/Kg	400714		06/24/08 2026 sur
						İ				

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

Test Method Method Descri Parameter	: SW- ption.: Ion : Bro	846 9056 Chromatography mide (Br)	Analysis	Units Batch(s)	: 400631 4	g/L 00714	Analy Test	st. Cod	: sur e.: BRO	
QC Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICV	WCS50001	19.624		20.00		98.1	90.0-110.		06/23/2008	1430
ICB		0							06/23/2008	3 1446
MB 40063121		0							06/23/2008	; 1502
LCS 40063121	WCS50001	19.799		20.00		99.0	90.0-110.		06/23/2008	; 1517
DU 355329-1		0.1361			0.1322	0.0039	0.6000		06/23/2008	1549
MS 355329-1	WCS49722	9.9655		10.000000	0.1322	98.3	90-110		06/23/2008	; 1604
CCV	WCS50001	19.760		20.00		98.8	90.0-110.		06/23/2008	: 1738
CCB		0							06/23/2008	1754
DU 355497-4		0.3235		10,00000	0.3493	0.0258	0.6000		06/23/2008	1943
MS 355497-4	WCS49722	10.218		10.000000	0.3493	98.7	90-110		06/23/2008	1955
CCV	WCS50001	19.903		20.00		99.5	90.0-110.		06/23/2008	; 2030
UCB 400621 21		0							06/23/2008	, 2046
MB 40003121		10 820		20.00		00 1	90 0-110		06/23/2000	2102 2115
DTI 355529_1	MCBJ0001	19.020		20.00	0	0	90.0-110. 1		06/23/2000	211/
MS 355529-1	MC949722	9 6678		10 00000	0	96 7	90-110		06/23/2000	2201
COV	WCS50001	19 841		20.00	0	99.2	90 0-110		06/23/2008	2354
CCB	WCDDOUDI	0		20.00		55.2	JO.0 110.		06/24/2008	1 0000
CCV	WCS50001	19,613		20.00		98.1	90.0-110.		06/24/2008	1 0302
CCB		0							06/24/2008	3 0317
CCV	WCS50001	19.870		20.00		99.3	90.0-110.		06/24/2008	3 0609
CCB		0							06/24/2008	0625
BK		0							06/24/2008	3 0712
BK		0							06/24/2008	0743
BK		0							06/24/2008	0815
BK		0							06/24/2008	0846
CCV	WCS50001	19.710		20.00		98.5	90.0-110.		06/24/2008	; 0902
CCB		0							06/24/2008	; 0917
ICV	WCS50001	20.015		20.00		100.1	90.0-110.		06/24/2008	; 1820
ICB		0							06/24/2008	; 1836
MB 40071421		0							06/24/2008	1852
LCS 40071421	WCS50001	19.666		20.00		98.3	90.0-110.		06/24/2008	1907
DU 355329-11		0.0558		10,00000	0	0.0558	0.6000		06/24/2008	1939
MS 355329-11	WCS49722	9.8441		10.000000	0	98.4	90-110		06/24/2008	1954
CCV	WCS50001	19.660		20.00		98.3	90.0-110.		06/24/2008	; ZIZE
CCB		0			0	0	1		06/24/2008	, ZI44
DU 355906-1 MC 255000 1	MCC/0722	0 4024		10 00000	0	04 9	L 00 110		06/24/2008	, 2345 , 000E
CON 1000 1000 1000 1000 1000 1000	WCS49722	9.4024		20.000000	0	94.0	90-110		06/25/2008	
CCV	MCBJ0001	19.790		20.00		99.0	90.0-110.		06/25/2008	2 002C
CCV	WCS50001	19 629		20 00		98 1	90 0-110		06/25/2008	1 0344
CCB	WCDDOUDI	0		20.00		50.1	JO.0 110.		06/25/2008	1 031
DU 356027-2		õ			0	0	1		06/25/2008	0415
MS 356027-2	WCS49722	9.3677	0	10.000000	Ũ	93.7	90-110		06/25/2008	0431
CCV	WCS50001	19.592	-	20.00	-	98.0	90.0-110.		06/25/2008	0502
CCB		0							06/25/2008	0518

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

QC Lab ID Reagent QC Result True Value Orig. Value Calc. Result * Limita F Date Time ICV WCS50001 19,455 20.00 97.3 90.0-110. 66/23/2008 140 UCS 0 20.00 98.5 90.0-110. 66/23/2008 150 UCS 40063121 0 20.00 98.5 90.0-110. 66/23/2008 150 US 355329-1 WCS49722 42.068 10.00000 35.530 65.4 90.0-110. 66/23/2008 166/23/2008 166/23/2008 1553 US 355497-4 WCS49702 42.330 10.00000 35.244 0.9 20.0 66/23/2008 166/23/2008 166/23/2008 166/23/2008 166/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/2008 106/23/	Test Method: SW-846 9056 Method Description.: Ion Chromatography Analysis Parameter: Chloride					Units mg/L Batch(s): 400631 400714			Analyst: sur Test Code.: CHL			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits H	7 Date	Time	
ICB 00 00 00/23/2008 1446 Ma 0063121 00 00/23/2008 1517 UD 355329-1 35.203 98.5 90.0-110 06/23/2008 1517 NS 35530 0.9 20 06/23/2008 1517 NS 355329-1 WC359001 19.691 20.00 98.5 90.0-110. 06/23/2008 1517 CCV WC359001 19.691 20.00 35.244 0.9 20 06/23/2008 1781 UD 355497-4 WC359001 19.746 20.00 98.7 90.0-110. 06/23/2008 2108 CW WC359001 19.652 20.00 7.3392 0.8 20 06/23/2008 2108 US 35529-1 WC359001 19.746 20.00 7.3392 91.0-110. 06/24/2008 2108 US 35529-1 WC359001 19.458 20.00 97.3 90.0-110. 06/24/2008 06/24/208 06/24/208 06/24/208 06/24/208 06/24/208	ICV		WCS50001	19.455		20.00		97.3	90.0-110.	06/23/2008	1430	
MB 4063121 0 06/23/2008 1507 LCS 40053121 35.203 35.530 0.9 20 06/23/2008 1507 RS 355329-1 35.203 0.9 20 06/23/2008 1507 RS 355329-1 WCS40722 42.068 10.00000 35.530 6.54 90.0-110. 06/23/2008 1734 RS 355497-4 34.929 35.244 0.9 20 06/23/2008 1959 CX WCS50001 19.746 20.00 98.7 90.0-110. 06/23/2008 2008 CX WCS50001 19.746 20.00 98.7 90.0-110. 06/23/2008 2018 CX WCS3529-1 7.3962 20.00 7.3392 0.8 20 06/23/2008 2017 US 355529-1 7.3962 0.00000 7.3392 0.8 20 06/23/2008 2010 06/23/2008 2010 06/23/2008 2010 06/23/2008 2010 06/23/2008	ICB			0						06/23/2008	1446	
ICS 40063121 WCS50001 19,705 20,00 98,5 90,0-110. 06/23/2008 1537 NS 355329-1 WCS50001 19,661 20,00 35,530 0,9 20 06/23/2008 1637 CCV WCS50001 19,661 20,00 98,5 90,0-110. 06/23/2008 1738 CCS 0 35,530 0,9 20 06/23/2008 164/3 CCS 0 35,5497-4 34,929 35,244 0,9 20 06/23/2008 126/3 CCV WCS50001 19,766 20,00 98,7 90,0-110. 06/23/2008 208 CCS 0 7,3562 20,00 98,3 90,0-110. 06/23/2008 210 CCS 0 19,766 20,00 96,7 90,0-110. 06/23/2008 213 VCV WCS50001 19,787 20,00 96,7 90,0-110. 06/24/2008 00 CCV WCS50001 19,787 20,00 97,6 90,0-1	MB	40063121		0						06/23/2008	1502	
Dd 35.249-1 35.240 1.9 20 06/23/2008 16/24 CX WCS 305322-V WCS50001 19.691 20.00 98.5 90.0-110.0 06/23/2008 1734 CX WCS50001 19.691 20.00 35.530 65.4 90.0-110.0 06/23/2008 1734 DX 355497-4 34.929 35.244 0.9 20 06/23/2008 1939 CX WCS50001 19.746 20.00 35.244 0.9 20.00 66/23/2008 20.00 CX WCS50001 19.7662 20.00 7.3392 0.8 20 06/23/2008 20.00 US 355529-1 7.3962 7.3392 0.8 20 06/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/23/2008 20.00 66/2	LCS	40063121	WCS50001	19.705		20.00		98.5	90.0-110.	06/23/2008	1517	
NS 355329-1 WC349722 42.066 10.00000 35.530 65.4 90-110 A 06/23/2008 1734 CCV WC350001 19.691 20.00 35.244 0.9 20.00 16/23/2008 1734 VCJ 355497-4 WC359001 19.746 20.00 35.244 70.9 90.0-110 A 06/23/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 6/2/3/2008 20.00 20.00 98.3 90.0-110. 6/2/3/2008 20.00 20.00 20.00 6/2/3/2008 20.00 20.01 20.02/2/20.00 20.02/2/20.	DU	355329-1		35.203		10 00000	35.530	0.9	20	06/23/2008	1549	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	MS	355329-1	WCS49722	42.068		10.000000	35.530	65.4	90-110 A	A 06/23/2008	1720	
CLB O <tho< th=""> O O O</tho<>	CCV		WCS50001	19.691		20.00		98.5	90.0-110.	06/23/2008	1754	
DD 35.297 0.72 32.29 10.00000 35.211 0.73 20 00.21,2000 197 CCV WCSS0001 19.746 20.00 98.7 90.0-110. 06/22/2008 2030 CCS 0 06/22/2008 2030 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 2020 06/22/2008 20210 06/22/2008 2251 07 07 00.0-110 06/22/2008 2020 07 390.0-110 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 000 06/24/2008 06/24/2008 </td <td>DU</td> <td>255/07_/</td> <td></td> <td>21 020</td> <td></td> <td></td> <td>25 244</td> <td>0 0</td> <td>20</td> <td>06/23/2008</td> <td>10/2</td>	DU	255/07_/		21 020			25 244	0 0	20	06/23/2008	10/2	
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	MG	355497-4	WC949722	42 330		10 00000	35.244	70.9	20 90_110 7	06/23/2008	1945	
CCB D.1.7.10 D.1.7.10 <thd.1.7.10< th=""> <thd.1.7.10< th=""> <thd.1< td=""><td>CCV</td><td>555477 H</td><td>WCS40722</td><td>19 746</td><td></td><td>20.00</td><td>33.211</td><td>98 7</td><td>90 0-110</td><td>06/23/2000</td><td>2030</td></thd.1<></thd.1.7.10<></thd.1.7.10<>	CCV	555477 H	WCS40722	19 746		20.00	33.211	98 7	90 0-110	06/23/2000	2030	
Main 40063121 0 06/23/2008 2102 LCS 40063121 WCS50001 19.662 20.00 98.3 90.0-110. 66/23/2008 2102 VI 355529-1 7.3962 7.3392 0.8 20 06/23/2008 2251 VI 355529-1 WCS49722 16.909 10.00000 7.3392 95.7 90-110. 06/23/2008 2354 CCV WCS50001 19.746 20.00 97.3 90.0-110. 06/24/2008	CCR		MCDS0001	0		20.00		50.7	50.0 110.	06/23/2008	2046	
ICS 40063121 WCS50001 19.662 20.00 98.3 90.0-110. 06/23/2008 2117 DJ 355529-1 WCS49722 16.909 10.00000 7.3392 0.8 20 06/33/2008 2317 NS 355529-1 WCS50001 19.746 20.00 98.7 90.0-110. 06/23/2008 2307 CCV WCS50001 19.458 20.00 97.3 90.0-110. 06/24/2008 0032 CCV WCS50001 19.458 20.00 97.3 90.0-110. 06/24/2008 0317 CCV WCS50001 19.787 20.00 98.9 90.0-110. 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 08/20 06/24/2008 06/24/2008 08/20 06/24/2008 08/20 06/24/2008 06/24/2008 06/24/2008	MB	40063121		0 0						06/23/2008	2102	
DD 355529-1 7.3962 7.3392 0.8 20 66/33/2008 2251 MS 355529-1 WCS49722 16.909 10.00000 7.3392 95.7 90.0110 66/32/2008 2307 CCV WCS50001 19.746 20.00 97.3 90.0-110. 66/32/2008 2307 CCV WCS50001 19.458 20.00 97.3 90.0-110. 66/24/2008 0317 CCV WCS50001 19.787 20.00 98.9 90.0-110. 66/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 0712 06/24/2008 06/24/2008 06/24/2008 06/24/2008 0712 06/24/2008 06/24/2008 0712 06/24/2008 06/24/2008 0815 06/24/2008 06/24/2008 06/24/2008 0815 06/24/2008 0815 06/24/2008 0815 06/24/2008 06/24/2008 0815 06/24/2008 06/24/2008 0815 06/24/2008 0815 06/24/2008 0815 06/24/2008 0815 06/24/2008 06/24/2008 0815 05/24/2008	LCS	40063121	WCS50001	19.662		20.00		98.3	90.0-110.	06/23/2008	2117	
NS 355529-1 WCS49722 16,909 10,00000 7,3392 95,7 90-110 06/23/2008 2307 CCV WCS50001 19,746 20.00 98,7 90.0-110. 06/23/2008 2307 CCV WCS50001 19,746 20.00 97,3 90.0-110. 06/23/2008 0307 CCV WCS50001 19,787 20.00 98.9 90.0-110. 06/24/2008 0632 CCV WCS50001 19,787 20.00 98.9 90.0-110. 06/24/2008 0632 CCE 0 0 0 0 0 0 0 06/24/2008 0317 CCV WCS50001 19,787 20.00 98.9 90.0-110. 06/24/2008 0713 EK 0	DU	355529-1		7.3962			7.3392	0.8	20	06/23/2008	2251	
CCV WCS50001 19.746 20.00 98.7 90.0-110. 06/23/2008 234 CCB 0.1964 06/24/2008 0302 06/24/2008 0302 CCW WCS50001 19.458 20.00 97.3 90.0-110. 06/24/2008 0302 CCW WCS50001 19.787 20.00 98.9 90.0-110. 06/24/2008 0652 CCB 0 06/24/2008 06/24/2008 06/24/2008 073 CCW WCS50001 19.787 20.00 98.9 90.0-110. 06/24/2008 074 EK 0 0 06/24/2008 074	MS	355529-1	WCS49722	16.909		10.000000	7.3392	95.7	90-110	06/23/2008	2307	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CCV		WCS50001	19.746		20.00		98.7	90.0-110.	06/23/2008	2354	
CCV WCS50001 19,458 20.00 97.3 90.0-110. 06/24/2008 0302 CCB 0 06/24/2008 0302 06/24/2008 0302 CCB 0 06/24/2008 08/24 06/24/2008 08/24 06/24/2008 08/24 06/24/2008 08/24 06/24/2008 08/24 06/24/2008 08/24 06/24/2008 0/28 06/24/2008 0/28 06/24/2008 0/28 06/24/2008 0/28 06/24/2008 0/28 06/24/2008 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 0/28 <t< td=""><td>CCB</td><td></td><td></td><td>0.1964</td><td></td><td></td><td></td><td></td><td></td><td>06/24/2008</td><td>0009</td></t<>	CCB			0.1964						06/24/2008	0009	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CCV		WCS50001	19.458		20.00		97.3	90.0-110.	06/24/2008	0302	
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			WCS50001	19.510		∠0.00		97.0	A0.0-TTO.	06/25/2008	0502	

Page 16 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

QC Lab ID Reagent QC Result True Value Orig. Value Calc. Result * Limits F Date Time ICS 0063121 0 00732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 140 06732008 153 06732208 1535321-1 0.1075 0.1088 68.6 09-10 06732008 153 06732008 153 06732008 153 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 06732008 120 067322008	Test Method: SW-846 9056 Method Description.: Ion Chromatography Analysis Parameter: Fluoride (F)				Units Batch(s)	: 400631 4	Analyst: sur Test Code.: FL				
ICV WCS50001 8.9651 10.00 89.7 90.0-110. G 06/23/2008 143 MB<40063121 0 0 0 0 0/23/2008 146 LS340063121 0.1075 10.00 0.1088 0.0013 0.3000 06/23/2008 146 NS 355329-1 0.1075 2.000000 0.1088 68.6 90.0-110. 06/23/2008 156 NS 355329-1 WCS50001 9.4913 10.00 0 0 0 0/23/2008 157 NS 355497-4 0 0 0 0 0 0/23/2008 152 NS 355497-4 0 0 0 0 0/23/2008 </th <th>QC Lab</th> <th>ID Reagent</th> <th>QC Result</th> <th>QC Result</th> <th>True Value</th> <th>Orig. Value</th> <th>Calc. Result *</th> <th>Limits</th> <th>F</th> <th>Date</th> <th>Time</th>	QC Lab	ID Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICB 06 06 06 06 06 06 06 06 06 05 06 05	ICV	WCS50001	8.9651		10.00		89.7	90.0-110.	G	06/23/2008	3 1430
MB 40063121 067.23/2008 150.00 92.8 90.0-110. 667.23/2008 151.00 DU 355329-1 0.1075 0.1088 0.0013 0.3000 667.23/2008 153.000 CX WCS50001 9.4913 10.00 94.9 90.0-110. 667.23/2008 153.000 CX WCS50001 9.4913 10.00 94.9 90.0-110. 667.23/2008 173.000 XCB 0 0 0 0 667.23/2008 173.000 173.000 173.000 100.02	ICB		0							06/23/2008	3 1446
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MB 400631	21	0							06/23/2008	3 1502
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NS 355329-1 WC3549722 1.4814 2.000000 0.1088 68.6 99-110 A 66/23/2008 173 CCB 0 0 0 0 0 06/23/2008 173 CCB 0 0 0 0 06/23/2008 173 NS 355497-4 0 0 0 06/23/2008 10.00 96.4 90.0-110 A 06/23/2008 120 NS 355497-4 0 0 0 0 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/23/2008 120 06/24/2008 120 06/24/2008 120 06/24/2008 120 06/	DU 355329-	-1	0.1075			0.1088	0.0013	0.3000		06/23/2008	3 1549
CCV WCSS0001 9,4913 10.00 94,9 90,0-110. 06/23/2008 175 CD 355497-4 0 0 0 0 06/23/2008 195 CV WCS50001 9,6360 10.00 96.4 90.0-110. 06/23/2008 195 CV WCS50001 9,6360 10.00 96.4 90.0-110. 06/23/2008 100 CCB 0 0 06/23/2008 10.00 96.4 90.0-110. 06/23/2008 120 CCB 0 0.1737 0.0317 0.3000 06/23/2008 220 US 35529-1 WCS49722 1.6284 2.000000 0.1737 72.7 90.0-110. 06/23/2008 220 CCV WCS50001 9.831 10.00 97.5 90.0-110. 06/23/2008 203 CCV WCS50001 9.8086 10.00 98.1 90.0-110. 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 0	MS 355329-	-1 WCS49722	1.4814		2.000000	0.1088	68.6	90-110	A	06/23/2008	3 1604
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CLB 0 <th0< th=""> 0 0 0</th0<>	CCV	WCS50001	9.6360		10.00		96.4	90.0-110.		06/23/2008	3 2030
101 100 100 10000 1000 1000 <		01	0							06/23/2008	3 204t
ILS 40063121 WCS50001 9.9955 10.00 90.0 90.0-110. 06/23/2008 211. U355529-1 0.2054 0.01737 72.7 90-110. 0.6/23/2008 230. WS 355529-1 WCS50001 9.8331 10.00 98.3 90.0-110. 06/23/2008 230. CCW WCS50001 9.7506 10.00 97.5 90.0-110. 06/24/2008 00. CCE 0 0 06/24/2008 030. 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 071. 06/24/2008 06/24/2008 071. 06/24/2008 071. 06/24/2008 071. 06/24/2008 071. 06/24/2008 071. 06/24/2008 071. 06/24/2008 071. 06/24/2008 074. 06/24/2008 074. 06/24/2008 074. 06/24/2008 074. 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008	MB 400631	ZI			10 00			00 0 110		06/23/2008	5 ZIU2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	LCS 400631	21 WCS50001	9.5985		10.00	0 1727	96.0	90.0-110.		06/23/2008	5 ZII.
NS 353529-1 NC349722 1.0249 2.00000 0.1737 72.7 90-110 A 06/23/2008 2355 CCW WCS50001 9.8331 10.00 98.3 90.0-110. 06/23/2008 2355 CCB 0 0 0 06/24/2008 005 06/24/2008 0317 CCW WCS50001 9.8096 10.00 98.1 90.0-110. 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 07110. 06/24/2008 06/24/2008 07110. 06/24/2008 07110. 06/24/2008 06/24/2008 07110. 06/24/2008 07110. 06/24/2008 07110. 06/24/2008 07110. 06/24/2008 07110. 06/24/2008 07110. 06/24/2008 0817 06/24/2008 0817 06/24/2008 0817 06/24/2008 0817 06/24/2008 0817 06/24/2008 06/24/2008 0817 06/24/2008 06/24/2008 06/24/2008 0817 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008	DU 355529	-1 Mag 40700	0.2054		2 00000	0.1737	0.0317	0.3000	7	06/23/2000	0 2201
CCV WCS5001 9.031 10.00 90.3 90.0-110. 06/24/2008 06/24/2008 00 CCV WCS50001 9.7506 10.00 97.5 90.0-110. 06/24/2008 031 CCV WCS50001 9.8086 10.00 98.1 90.0-110. 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 071 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2 06/24/2008 08/2	000	-1 WCS49722 WCS50001	1.0204		10 00	0.1/3/	72.7 08 2	90-110	А	06/23/2008	2301
CCS 0	CCV	MCSJOOOT	9.0331		10.00		90.5	90.0-110.		06/23/2000	
CCB Description Description <thdescription< th=""> <thdes< td=""><td>CCB</td><td>WC950001</td><td>9 7506</td><td></td><td>10 00</td><td></td><td>97 5</td><td>90 0-110</td><td></td><td>06/24/2000</td><td>00003</td></thdes<></thdescription<>	CCB	WC950001	9 7506		10 00		97 5	90 0-110		06/24/2000	00003
CCV WCS50001 9.8086 10.00 98.1 90.0-110. 66/24/2008 66/24/2008 66/24/2008 66/24/2008 66/24/2008 66/24/2008 66/24/2008 66/24/2008 67/24/2008 66/24/2008 67/24/2008 66/24/2008 67/2	CCB	WCD50001	0		10.00		57.5	J0.0 110.		06/24/2008	0312
CCB 0 000000000000000000000000000000000000	CCV	WCS50001	9.8086		10.00		98.1	90.0-110.		06/24/2008	0609
BK 0 06/24/2008 0712 BK 0 06/24/2008 0742 BK 0 06/24/2008 0742 BK 0 06/24/2008 06/24/2008 BK 0 06/24/2008 06/24/2008 BK 0 06/24/2008 06/24/2008 CCV WCS50001 9.4848 10.00 94.8 90.0-110. 06/24/2008 06/24/2008 CCV WCS50001 8.9843 10.00 89.8 90.0-110. 6/24/2008 1832 ICB 0 0 0 0 06/24/2008 1832 UCS 40071421 0 0 0 0 0/24/2008 1832 UCS 40071421 0 0 0 0 0/24/2008 1933 UCS 40071421 0 0 0 0/24/2008 1933 UCS 40071421 0 0 0 0/24/2008 1933 UCS 400714-21 0 0.000 98.7 90.0-110. 0/24/2008 124 UCS 400714 9.8669 10.00	CCB	10000000	0		10100		2012	2010 1101		06/24/2008	0625
BK 0 06/24/2008 0743 BK 0 06/24/2008 0812 EK 0 06/24/2008 0812 EK 0 06/24/2008 0812 CCV WCS50001 9.4848 10.00 94.8 90.0-110. 06/24/2008 0842 CCB 0 0 06/24/2008 0812 06/24/2008 0812 ICB 0 0 0 06/24/2008 1820 06/24/2008 1820 ICS 40071421 0 0 0 06/24/2008 1832 ICS 40071421 0 0 0 0 06/24/2008 1832 ICS 40071421 0 0 0 0 06/24/2008 1932 ICS 40071421 0 0 0 0 06/24/2008 1932 ICS 40071421 0 0.00 0 06/24/2008 1932 ICS 400714-21 0 0.00 0 06/24/2008 244 ICV WCS50001 9.8669 <td>BK</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>06/24/2008</td> <td>8 0712</td>	BK		0							06/24/2008	8 0712
EK 0 06/24/2008 0815 EK 0 06/24/2008 0816 CCV WCS50001 9.4848 10.00 94.8 90.0-110. 06/24/2008 0902 CCV WCS50001 8.9843 10.00 89.8 90.0-110. G/24/2008 1820 ICB 0 0 60/24/2008 1820 06/24/2008 1820 ICB 0 0 93.0 90.0-110. G/24/2008 1820 ICS 40071421 WCS50001 9.2992 10.00 93.0 90.0-110. 06/24/2008 1907 DU 355329-11 0 0 0 0 0 0 06/24/2008 1907 DU 355329-11 0 0 0 0 0 06/24/2008 1202 CCV WCS50001 9.2922 10.00 98.7 90.0-110. 06/24/2008 1202 CCV WCS50001 9.2669 10.00 98.7 90.0-110. 06/24/2008 244 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 <td>BK</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>06/24/2008</td> <td>0743</td>	BK		0							06/24/2008	0743
EK 0 0 06/24/2008 0846 CCV WCS5001 9.4848 10.00 94.8 90.0-110. 06/24/2008 0907 CCB 0 0 0/24/2008 0846 06/24/2008 1857 0/24/2008 1836 ICB 0 0 0/24/2008 1836 06/24/2008 1836 06/24/2008 1836 ICB 0 0 0 0/24/2008 1836 0/24/2008 1836 0/2/2008 1836 ICS 40071421 0 0 0 0 0/2/2008 1845 0/2/2008 1845 ICS 40071421 0 0 0 0 0/2/2008 1845 0/2/2008 1845 ICS 40071421 0 0 0 0 0/2/2008 1845 0/2/2008 1845 ICS 40071421 0 0 0 0 0/2/2008 124 0/2/2008 124 CCV WCS5001 9.8669 10.00 98.7 90.0-110. 0/2/2/2008 024 MS 355908-1 0.2173 0.2088 0.0085 0.3000 0/2/2/2008 034 CCV WCS50001 9.6000 10.00 97.8 90.0-1	BK		0							06/24/2008	0815
CCV WCS50001 9.4848 10.00 94.8 90.0-110. 06/24/2008 0902 CCB 0 0 06/24/2008 0917 ICV WCS50001 8.9843 10.00 89.8 90.0-110. G/24/2008 1832 ICB 0 0 0 06/24/2008 1832 06/24/2008 1832 ICS 40071421 0 0 0 0 06/24/2008 1832 UCS 40071421 0 0 0 0 06/24/2008 1907 US 40071421 WCS50001 9.2992 10.00 93.0 90.0-110. 06/24/2008 1932 US 355908-1 0 0 0 0 0 0 06/24/2008 144 MS 355908-1 0.2173 0.2088 0.0085 0.3000 06/25/2008 002 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 002 CCV WCS50001 9.600 10.00 96.0 90.0-110. 06/25/2008	BK		0							06/24/2008	0846
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CCV	WCS50001	9.4848		10.00		94.8	90.0-110.		06/24/2008	0902
ICV WCS50001 8.9843 10.00 89.8 90.0-110. G 06/24/2008 1820 ICB 0 0 0 0 0 0 06/24/2008 1830 ICS 40071421 0 0 0 0 06/24/2008 1830 ICS 40071421 0 0 0 0 06/24/2008 1830 UCS 40071421 0 0 0 0 0 06/24/2008 1830 US 40071421 0 0 0 0 0 06/24/2008 1907 DU 355329-11 0 0 0 0 06/24/2008 2126 CCB 0 0 0 0 06/24/2008 2126 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90.0-110 A 06/25/2008<0020	CCB		0							06/24/2008	091
ICB 0 06/24/2008 1836 MB 40071421 0 06/24/2008 1852 ICS 40071421 WCS50001 9.2992 10.00 93.0 90.0-110. 06/24/2008 1935 DU 355329-11 0 0 0 0 0 06/24/2008 1935 CCV WCS50001 9.8669 10.00 98.7 90.0-110. 06/24/2008 2126 CCB 0 0 0 0 06/24/2008 2126 DU 355908-1 0.2173 0.2088 0.0085 0.3000 06/24/2008 2146 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90-110. A 06/25/2008 002 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 0344 CCB 0 0 0 0 0 06/25/2008 0344 CCB 0 0 0 0 0 06/25/2008 0344 DU 356027-2	ICV	WCS50001	8.9843		10.00		89.8	90.0-110.	G	06/24/2008	1820
MB 40071421 0 06/24/2008 1852 LCS 40071421 WCS50001 9.2992 10.00 93.0 90.0-110. 06/24/2008 1907 DU 355329-11 0 0 0 0 0 06/24/2008 1935 CCV WCS50001 9.8669 10.00 98.7 90.0-110. 06/24/2008 2126 CCB 0 0 0.2088 0.0085 0.3000 06/24/2008 2142 DU 355908-1 0.2173 0.2088 0.0085 0.3000 06/24/2008 2342 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90-110 A 06/25/2008 002 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 0342 CCB 0 0 0 0 0 0 06/25/2008 0342 DU 356027-2 0 0 0 0 06/25/2008 0402 CCV WCS50001 9.6252 10.00 <td< td=""><td>ICB</td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td>06/24/2008</td><td>1836</td></td<>	ICB		0							06/24/2008	1836
LCS 40071421 WCS50001 9.2992 10.00 93.0 90.0-110. 06/24/2008 1997 DU 355329-11 0 0 0 0 0 0 06/24/2008 1935 CCV WCS50001 9.8669 10.00 98.7 90.0-110. 06/24/2008 2142 CCB 0 0 0 0.0085 0.3000 06/24/2008 2344 DU 355908-1 0.2173 0.2088 0.0085 0.3000 06/24/2008 2344 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90-110 A 06/25/2008 0020 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 0036 CCB 0 0 0 0 0 06/25/2008 0036 CCB 0 0 0 0 06/25/2008 0346 DU 356027-2 0 0 0 0 06/25/2008 0415 MS 356027-2 WCS49722 1.7012 0 2.000000 85.1 90.0-110. 06/25/2008 0435 CCV WCS50001 9.6252 10.00 96.3 90.	MB 400714	21	0							06/24/2008	1852
DU 355329-11 0 0 0 0 06/24/2008 1939 CCV WCS50001 9.8669 10.00 98.7 90.0-110. 06/24/2008 2126 CCB 0 0 0 0 06/24/2008 2142 DU 355908-1 0.2173 0.2088 0.0085 0.3000 06/24/2008 2344 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90-110 A 06/25/2008 002 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 0344 CCB 0 0 0 0 0 0 06/25/2008 0344 CCB 0 0 0 0 0 06/25/2008 0404 DU 356027-2 0 0 0 0 0 06/25/2008 0412 MS 356027-2 WCS49722 1.7012 0 2.000000 85.1 90.0-110 A 06/25/2008 0402 CCV WCS50001 9.6252 10.00<	LCS 400714-	21 WCS50001	9.2992		10.00		93.0	90.0-110.		06/24/2008	1907
CCV WCS50001 9.8669 10.00 98.7 90.0-110. 06/24/2008 2126 CCB 0 0 0 06/24/2008 2140 DU 355908-1 0.2173 0.2088 0.0085 0.3000 06/24/2008 2349 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90.0-110. 06/25/2008 002 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 002 CCV WCS50001 9.6000 10.00 96.0 90.0-110. 06/25/2008 0344 CCB 0 0 0 0 0 06/25/2008 0404 DU 356027-2 WCS49722 1.7012 0 2.000000 0 85.1 90.0-110. 06/25/2008 0432 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0432 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0502 CCV WCS50001	DU 355329-	-11	0			0	0	0		06/24/2008	1939
$\begin{array}{cccccc} CCB & & & & & & & & & & & & & & & & & &$	CCV	WCS50001	9.8669		10.00		98.7	90.0-110.		06/24/2008	3 2128
DU 355908-1 0.2173 0.2088 0.0085 0.3000 06/24/2008 2349 MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90-110 A 06/25/2008 005 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 002 CCB 0 0 0 0 06/25/2008 0346 CCB 0 0 0 06/25/2008 0346 CCB 0 0 0 06/25/2008 0400 DU 356027-2 0 0 0 0 06/25/2008 0415 MS 356027-2 WCS49722 1.7012 0 2.000000 85.1 90-110 A 06/25/2008 0432 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0513 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0513 CCW 0 0 96.3 90.0-110. 06/25/2008 05	CCB		0							06/24/2008	3 2144
MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90-110 A 06/25/2008 0005 CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 002 CCB 0 0 0 0 06/25/2008 0342 CCB 0 0 0 06/25/2008 0342 CCB 0 0 0 06/25/2008 0402 DU 356027-2 0 0 0 06/25/2008 0413 MS 356027-2 WCS49722 1.7012 0 2.000000 85.1 90-110 A 06/25/2008 0413 CCV WCS50001 9.6252 10.00 96.3 90.0-110 A 06/25/2008 0502 CCV WCS50001 9.6252 10.00 96.3 90.0-110 06/25/2008 0502 CCP 0 0 96.3 90.0-110 06/25/2008 0502 CCV WCS50001 9.6252 10.00 96.3 90.0-110 06/25/2008 0502	DU 355908-	-1	0.2173			0.2088	0.0085	0.3000		06/24/2008	3 2349
CCV WCS50001 9.7836 10.00 97.8 90.0-110. 06/25/2008 002 CCB 0 0 0 06/25/2008 036 CCV WCS50001 9.6000 10.00 96.0 90.0-110. 06/25/2008 034 CCB 0 0 0 06/25/2008 044 DU 356027-2 0 0 0 06/25/2008 041 MS 356027-2 WCS49722 1.7012 0 2.000000 85.1 90-110 A 06/25/2008 043 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0502 CCP 0 0 0 06/25/2008 0502	MS 355908-	-1 WCS49722	1.6806		2.000000	0.2088	73.6	90-110	A	06/25/2008	8 0005
CCB 0 06/25/2008 0036 CCV WCS50001 9.6000 10.00 96.0 90.0-110. 06/25/2008 0346 CCB 0 0 06/25/2008 0406 06/25/2008 0406 DU 356027-2 0 0 0 06/25/2008 0415 MS 356027-2 WCS49722 1.7012 0 2.000000 85.1 90-110 A 06/25/2008 0455 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0505	CCV	WCS50001	9.7836		10.00		97.8	90.0-110.		06/25/2008	8 0020
CCV WCS50001 9.6000 10.00 96.0 90.0-110. 06/25/2008 0344 CCB 0 0 0 06/25/2008 0400 DU 356027-2 0 0 0 0 06/25/2008 0415 MS 356027-2 WCS49722 1.7012 0 2.000000 85.1 90-110 A 06/25/2008 0435 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0502 CCP 0 0 0 0 06/25/2008 0502	CCB		0							06/25/2008	0036
CCB 0 0 06/25/2008 0400 DU 356027-2 0 0 0 06/25/2008 0415 MS 356027-2 WCS49722 1.7012 0 2.000000 0 85.1 90-110 A 06/25/2008 0415 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0502 CCV 0 0 0 96.3 90.0-110. 06/25/2008 0502	CCV	WCS50001	9.6000		10.00		96.0	90.0-110.		06/25/2008	3 0344
L0 35602/-2 0 0 0 0 0 06/25/2008 0415 MS 356027-2 WCS49722 1.7012 0 2.000000 0 85.1 90-110 A 06/25/2008 0415 CCV WCS50001 9.6252 10.00 96.3 90.0-110. 06/25/2008 0502 CCV 0 0 2.000000 96.3 90.0-110. 06/25/2008 0502	CCB	2	U			0	0	0		06/25/2008	0400
Impose Impose<	DU 356027-		U 1 7010	0	2 000000	U		U 00 110	7	06/25/2008	0.0415
CCV WCSDUUL 9.0222 10.00 90.3 90.0-110. 06/25/2008 0512 CPUE 0 06/25/2008 0512	25002/-	-2 WCS49/22	1./UIZ	U	2.000000	U	05.1	90-110	А	06/25/2008	0431
	CCV	MC22001	9.0252		T0.00		90.5	90.0-110.		06/25/2000	00002 0510

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATTN: Todd Wells

Test M Method Parame	Method 1 Descrig eter	: SW- ption.: Ior : Nit	-846 9056 n Chromatography i crogen, Nitrate as	Analysis s N (NO3-N)	Units Batch(s)	Analyst: sur Test Code.: NO3				
QC I	lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits F	Date	Time
ICV		WCS50001	10.254		10.0		102.5	90.0-110.	06/23/2008	1430
ICB			0						06/23/2008	1446
MB 400)63121		0						06/23/2008	1502
LCS 400	063121	WCS50001	10.404		10.0		104.0	90.0-110.	06/23/2008	1517
DU 355	5329-1		0			0	0	0	06/23/2008	1549
MS 355	5329-1	WCS49722	1.9243		2.000000	0	96.2	90-110	06/23/2008	1604
CCV		WCS50001	10.374		10.0		103.7	90.0-110.	06/23/2008	1738
CCB			0						06/23/2008	1754
DU 355	5497-4		0			0	0	0	06/23/2008	1943
MS 355	5497-4	WCS49722	1.9491		2.000000	0	97.5	90-110	06/23/2008	1959
CCV		WCS50001	10.430		10.0		104.3	90.0-110.	06/23/2008	2030
CCB			0						06/23/2008	2046
MB 400)63121		0						06/23/2008	2102
LCS 400	063121	WCS50001	10.427		10.0		104.3	90.0-110.	06/23/2008	2117
DU 355	5529-1		0			0.0998	0.0998	0.2500	06/23/2008	2251
MS 355	5529-1	WCS49722	1.9565		2.000000	0.0998	92.8	90-110	06/23/2008	2307
CCV		WCS50001	10.431		10.0		104.3	90.0-110.	06/23/2008	2354
CCB			0						06/24/2008	0009
CCV		WCS50001	10.288		10.0		102.9	90.0-110.	06/24/2008	0302
CCB			0						06/24/2008	0317
CCV		WCS50001	10.409		10.0		104.1	90.0-110.	06/24/2008	0609
CCB			0						06/24/2008	0625
BK			0						06/24/2008	0712
BK			0						06/24/2008	0743
BK			0						06/24/2008	0815
BK			0						06/24/2008	0846
CCV		WCS50001	10.427		10.0		104.3	90.0-110.	06/24/2008	0902
CCB			0						06/24/2008	0917
ICV		WCS50001	10.318		10.0		103.2	90.0-110.	06/24/2008	1820
ICB			0						06/24/2008	1836
MB 400	071421		0						06/24/2008	1852
LCS 400	071421	WCS50001	10.393		10.0		103.9	90.0-110.	06/24/2008	1907
DU 355	5329-11		0.0999			0	0.0999	0.2500	06/24/2008	1939
MS 355	5329-11	WCS49722	1.9777		2.000000	0	98.9	90-110	06/24/2008	1954
CCV		WCS50001	10.364		10.0		103.6	90.0-110.	06/24/2008	2128
CCB			0						06/24/2008	2144
DU 355	5908-1		0.1329			0.1456	0.0127	0.2500	06/24/2008	2349
MS 355	5908-1	WCS49722	1.9572		2.000000	0.1456	90.6	90-110	06/25/2008	0005
CCV		WCS50001	10.381		10.0		103.8	90.0-110.	06/25/2008	0020
CCB			0						06/25/2008	0036
CCV		WCS50001	10.336		10.0		103.4	90.0-110.	06/25/2008	0344
CCB			0						06/25/2008	0400
DU 356	5027-2		0.1553	_		0.1785	0.0232	0.2500	06/25/2008	0415
MS 356	5027-2	WCS49722	1.9608	0.1553	2.000000	0.1785	89.1	90-110 A	06/25/2008	0431
CCV		WCS50001	10.322		10.0		103.2	90.0-110.	06/25/2008	0502
CCB			0						06/25/2008	0518

Report Date.: 06/26/2008

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Job Number.: 355329

ATIN: Todd Wells

Test Method Method Descrip Parameter	: SW- ption.: Ion : Nit	846 9056 Chromatography <i>P</i> rogen, Nitrite as	Analysis s N (NO2-N)	Units Batch(s)	Analyst: sur Test Code.: NO2					
QC Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result '	* Limits	F	Date	Time
ICV	WCS50001	9.6569		10.0		96.6	90.0-110.	_	06/23/2008	1430
ICB		0							06/23/2008	1446
MB 40063121		0							06/23/2008	1502
LCS 40063121	WCS50001	9.7997		10.0		98.0	90.0-110.		06/23/2008	1517
DU 355329-1	1100 1000	0		0 00000	0	0	0		06/23/2008	1549
MS 355329-1	WCS49722	2.0621		2.000000	0	103.1	90-110		06/23/2008	1604
CCV	WCS50001	9.7605		10.0		97.6	90.0-110.		06/23/2008	1754
CCB		0			0	0	0		06/23/2008	1042
DU 355497-4	WCC40700	0		2 00000	0	102 6	0 110		06/23/2008	1943
MS 355497-4	WCS49722	2.0512		2.000000	0	102.0	90-110		06/23/2008	1939
CCV	WCS50001	9.7950		10.0		98.0	90.0-110.		06/23/2008	2030
MD 400621 21		0							06/23/2008	2040
MB 40003121		0 7710		10 0		07 7	00 0 110		06/23/2008	2102
DTI 255520_1	WCSJUUUI	9.7710		10.0	0	0	90.0-110.		06/23/2008	2117
MG 355529_1	WC949722	1 7881		2 000000	0	89.4	90_110	λ	06/23/2000	2201
CQN	WCS40722	9 7951		10 0	0	98.0	90 0-110	л	06/23/2000	2354
CCV	WCDDDUDT	0		10.0		20.0	J0.0 110.		06/24/2008	0009
CCV	WCS50001	9 6510		10 0		96 5	90 0-110		06/24/2008	0302
CCB	nebbooot	0.0757		10.0		50.5	20.0 110.		06/24/2008	0317
CCV	WCS50001	9,7552		10.0		97.6	90.0-110.		06/24/2008	0609
CCB	110000001	0		2010		57.00	2010 1101		06/24/2008	0625
BK		0							06/24/2008	0712
BK		0							06/24/2008	0743
BK		0							06/24/2008	0815
BK		0							06/24/2008	0846
CCV	WCS50001	9.6575		10.0		96.6	90.0-110.		06/24/2008	0902
CCB		0							06/24/2008	0917
ICV	WCS50001	9.7204		10.0		97.2	90.0-110.		06/24/2008	1820
ICB		0							06/24/2008	1836
MB 40071421		0							06/24/2008	1852
LCS 40071421	WCS50001	9.6858		10.0		96.9	90.0-110.		06/24/2008	1907
DU 355329-11		0			0	0	0		06/24/2008	1939
MS 355329-11	WCS49722	1.8418		2.000000	0	92.1	90-110		06/24/2008	1954
CCV	WCS50001	9.7469		10.0		97.5	90.0-110.		06/24/2008	2128
CCB		0							06/24/2008	2144
DU 355908-1		0			0	0	0		06/24/2008	2349
MS 355908-1	WCS49722	1.7763		2.000000	0	88.8	90-110	А	06/25/2008	0005
CCV	WCS50001	9.6992		10.0		97.0	90.0-110.		06/25/2008	0020
CCB		0							06/25/2008	0036
CCV	WCS50001	9.6595		10.0		96.6	90.0-110.		06/25/2008	0344
CCB		U			<u> </u>	0	0		06/25/2008	0400
DU 356027-2	1000	0	0	0.000000	0	0	0	-	06/25/2008	0415
MS 356027-2	WCS49722	1.6938	U	2.000000	U	84.7	90-110	А	06/25/2008	0431
	WCS50001	9.6543		T0.0		96.5	90.0-110.		06/25/2008	0502
CCB		U							00/25/2008	0218

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

Test Method: SW-846 9056 Method Description.: Ion Chromatography Analysis Parameter: Sulfate (SO4)				Units Batch(s)	Analyst: sur Test Code.: SO4						
QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICV		WCS50001	19.243		20.00		96.2	90.0-110.		06/23/2008	1430
ICB			0							06/23/2008	1446
MB	40063121		0							06/23/2008	1502
LCS	40063121	WCS50001	19.225		20.00		96.1	90.0-110.		06/23/2008	1517
DU	355329-1	1100 1000	0.8904		10,00000	0.9813	0.0909	0.5000		06/23/2008	1549
MS	355329-1	WCS49722	10.029		10.000000	0.9813	90.5	90-110		06/23/2008	1604
CCV		WCS50001	19.438		20.00		97.2	90.0-110.		06/23/2008	1754
CCB	255/07 /		0 2225			0 1075	0 0250	0 5000		06/23/2008	1042
MC	255/07_/	MCG/0722	0.2225		10 00000	0.1875	0.0350	90_110		06/23/2008	1050
	333497-4	WCS49722	19.7019		20.00	0.10/5	97 7	90 0-110		06/23/2008	2030
CCV		WCSJUUUI	0		20.00		21.1	J0.0 110.		06/23/2000	2030
MB	40063121		0							06/23/2008	2102
ICS	40063121	WCS50001	19.695		20.00		98.5	90.0-110.		06/23/2008	2117
DU	355529-1	nebbooot	1.7846		20.00	1.7966	0.0120	0.5000		06/23/2008	2251
MS	355529-1	WCS49722	11.234		10,000000	1.7966	94.4	90-110		06/23/2008	2307
CCV		WCS50001	19.367		20.00		96.8	90.0-110.		06/23/2008	2354
CCB			0							06/24/2008	0009
CCV		WCS50001	19.345		20.00		96.7	90.0-110.		06/24/2008	0302
CCB			0							06/24/2008	0317
CCV		WCS50001	19.559		20.00		97.8	90.0-110.		06/24/2008	0609
CCB			0							06/24/2008	0625
BK			0.1292							06/24/2008	0712
BK			0.2787							06/24/2008	0743
BK			0							06/24/2008	0815
BK			0							06/24/2008	0846
CCV		WCS50001	19.529		20.00		97.6	90.0-110.		06/24/2008	0902
CCB		110050001	0		00.00		04.0	00 0 110		06/24/2008	0917
TCA		WCS50001	18.954		20.00		94.8	90.0-110.		06/24/2008	1820
TCB	400714 01		0							06/24/2008	1050
MB T CC	40071421		10 667		20.00		00 2	00 0 110		06/24/2008	1007
LCS	400/1421 255220 11	WCS50001	19.007		20.00	0 2612	90.3	90.0-110.		06/24/2008	1020
MC	355329-11	MCG/0722	0.3445		10 00000	0.2012	0.0033	90_110		06/24/2008	1959
	333329-11	WCS49722	9.7940 10.517		20.000000	0.2012	95.5	90-110		06/24/2008	2122
CCV		MC330001	0 0340		20.00		97.0	90.0-110.		06/24/2008	2120
DII	355908-1		29 938			30 087	05	20		06/24/2008	2349
MS	355908-1	WCS49722	38 074		10 000000	30.087	79.9	90-110	Δ	06/25/2008	0005
CCV	333300 1	WCS50001	19,549		20.00	30.007	97.7	90.0-110.		06/25/2008	0020
CCB		110000001	0		20100		2	2010 1101		06/25/2008	0036
CCV		WCS50001	19.384		20.00		96.9	90.0-110.		06/25/2008	0344
CCB			0							06/25/2008	0400
MS	356027-2	WCS49722	9.2607	0.7095	10.000000	0.0761	91.8	90-110		06/25/2008	0431
CCV		WCS50001	19.526		20.00		97.6	90.0-110.		06/25/2008	0502
CCB			0							06/25/2008	0518
QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/26/2008

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
- 4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result. - m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).

- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
 Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, multiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

- U This qualifier indicates that the analyte was analyzed but not detected.
- J (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- B (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

- A Matrix interference present in sample.
- a MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
- b Target analyte was found in the method blank.
- M QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/26/2008

observed above the RL in the associated samples.

- G Marginal outlier within 1% of acceptance criteria.
- r RPD value is outside method acceptance criteria.
- C Poor RPD values observed due to the non-homogenous nature of the sample.
- 0 Sample required dilution due to matrix interference.
- D Sample reported from a dilution.
- d Spike and/or surrogate diluted.
- E The reported concentration exceeds the instrument calibration.
- F The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q See the subcontract final report for qualifier explanation.
- W The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K High recovery will not affect the quality of reported results.
- Z See case narrative.

Explanation of Organic QC Outliers:

- e Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T Sample analysis yielded poor surrogate recovery.
- R The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X Gaseous compound. In-house QC limits are advisory.
- Y Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e Serial dilution failed due to matrix interference.
- g Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
- s BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- 1 BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N Spiked sample recovery is not within control limits.
- n Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike
- recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * Duplicate analysis is not within control limits.

Abbreviations:

- Batch Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV Continuing Calibration Verification
- CRA Low level standard check GFAA, Mercury
- CRI Low level standard check ICP
- Dil Fac Dilution Factor Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/26/2008

DLFac	- Detection Limit Factor
DU	- Duplicate
EB	- Extraction Blank (TCLP, SPLP, etc.)
ICAL	- Initial Calibration
ICB	- Initial Calibration Blank
ICV	- Initial Calibration Verification
ISA	- Interference Check Sample A - ICP
ISB	- Interference Check Sample B - ICP
LCD	- Laboratory Control Duplicate
LCS	- Laboratory Control Sample
MB	- Method Blank
MD	- Method Duplicate
MDL	- Method Detection Limit
MQL	- Method Quantitation Limit (TRRP)
MS	- Matrix Spike
MSD	- Matrix Spike Duplicate
ND	- Not Detected
PB	- Preparation Blank
PREPF	- Preparation Factor
RL	- Reporting Limit
RPD	- Relative Percent Difference
RRF	- Relative Response Factor
RT	- Retention Time
SQL	- Sample Quantitation Limit (TRRP)
TIC	- Tentatively Identified Compound

Method References:

- (1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
- (3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
- (4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
- (5) HACH Water Analysis Handbook 3rd Edition (1997).
- (6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
 (7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.
- (9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

LABORATORY CHRONICLE

Job Number: 355329

Date: 06/26/2008

CUSTOMER: Conesto	ga-Rovers and Associates	PROJECT: STATE G LEASE NM 04 ATIN: Todd Wells	
Lab ID: 355329-1 METHOD SW-846 9056	Client ID: SB-4 5' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1533	DILUTION 10
Lab ID: 355329-2 METHOD SW-846 9056	Client ID: SB-4 10' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1620	DILUTION 10
Lab ID: 355329-3 METHOD SW-846 9056	Client ID: SB-4 15' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1636	DILUTION 10
Lab ID: 355329-4 METHOD SW-846 9056	Client ID: SB-4 20' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1651	DILUTION 10
Lab ID: 355329-5 METHOD SW-846 9056	Client ID: SB-4 25' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1707	DILUTION 10
Lab ID: 355329-6 METHOD SW-846 9056	Client ID: SB-4 30' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1723	DILUTION 10
Lab ID: 355329-7 METHOD SW-846 9056	Client ID: SB-4 35' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1809	DILUTION 10
Lab ID: 355329-8 METHOD SW-846 9056	Client ID: SB-4 40' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1825	DILUTION 10
Lab ID: 355329-9 METHOD SW-846 9056	Client ID: SB-4 40-42' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1841	DILUTION 10
Lab ID: 355329-10 METHOD SW-846 9056	Client ID: SB-4 42-44' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1856	DILUTION 10
Lab ID: 355329-11 METHOD SW-846 9056	Client ID: SB-4 44-46' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400714 06/24/2008 1923	DILUTION 10
Lab ID: 355329-12 METHOD SW-846 9056	Client ID: SB-4 46-48' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400714 06/24/2008 2010	DILUTION 10
Lab ID: 355329-13 METHOD SW-846 9056	Client ID: SB-4 48-50' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400714 06/24/2008 2026	DILUTION 10

Analytical Report 437672

for

Conestoga Rovers & Associates

Project Manager: Desiree Crenshaw

State G

042079

08-MAR-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZ0758)



08-MAR-12



Project Manager: **Desiree Crenshaw Conestoga Rovers & Associates** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No: 437672 State G Project Address: New Mexico

Desiree Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 437672. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 437672 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 437672



Conestoga Rovers & Associates, Midland, TX

State G

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-4 0-5'	S	02-24-12 09:52	0 - 5 ft	437672-001
SB-4 5-10'	S	02-24-12 09:53	5 - 10 ft	437672-002
SB-4 10-15'	S	02-24-12 09:55	10 - 15 ft	437672-003
SB-4 15-20'	S	02-24-12 09:56	15 - 20 ft	437672-004
SB-4 20-25'	S	02-24-12 09:57	20 - 25 ft	437672-005
SB-4 25-30'	S	02-24-12 09:58	25 - 30 ft	437672-006
SB-4 30-35'	S	02-24-12 10:00	30 - 35 ft	437672-007
SB-4 35-40'	S	02-24-12 10:01	35 - 40 ft	437672-008
SB-4 40-45'	S	02-24-12 10:02	40 - 45 ft	437672-009
SB-4 45-50'	S	02-24-12 10:03	45 - 50 ft	437672-010
SB-4 50-55'	S	02-24-12 10:05	50 - 55 ft	437672-011
SB-4 55-60'	S	02-24-12 10:06	55 - 60 ft	437672-012
SB-4 60-65'	S	02-24-12 10:07	60 - 65 ft	437672-013
SB-4 65-70'	S	02-24-12 10:08	65 - 70 ft	437672-014
SB-4 70-75'	S	02-24-12 10:09	70 - 75 ft	437672-015
SB-4 75-80'	S	02-24-12 10:10	75 - 80 ft	437672-016
SB-5 0-5'	S	02-24-12 10:15	0 - 5 ft	437672-017
SB-5 5-10'	S	02-24-12 10:17	5 - 10 ft	437672-018
SB-5 10-15'	S	02-24-12 10:19	10 - 15 ft	437672-019
SB-5 15-20'	S	02-24-12 10:22	15 - 20 ft	437672-020
SB-5 20-25'	S	02-24-12 10:23	20 - 25 ft	437672-021
SB-5 25-30'	S	02-24-12 10:24	25 - 30 ft	437672-022
SB-5 30-35'	S	02-24-12 10:25	30 - 35 ft	437672-023
SB-5 35-40'	S	02-24-12 10:27	35 - 40 ft	437672-024
SB-5 40-45'	S	02-24-12 10:29	40 - 45 ft	437672-025
SB-5 45-50'	S	02-24-12 10:30	45 - 50 ft	437672-026
SB-5 50-55'	S	02-24-12 10:31	50 - 55 ft	437672-027
SB-5 55-60'	S	02-24-12 10:33	55 - 60 ft	437672-028
SB-5 60-65'	S	02-24-12 10:34	60 - 65 ft	437672-029
SB-5 65-70'	S	02-24-12 10:35	65 - 70 ft	437672-030
SB-5 70-75'	S	02-24-12 10:36	70 - 75 ft	437672-031
SB-5 75-80'	S	02-24-12 10:38	75 - 80 ft	437672-032
SB-6 0-5'	S	02-24-12 10:46	0 - 5 ft	437672-033
SB-6 5-10'	S	02-24-12 10:47	5 - 10 ft	437672-034
SB-6 10-15'	S	02-24-12 10:48	10 - 15 ft	437672-035
SB-6 15-20'	S	02-24-12 10:49	15 - 20 ft	437672-036
SB-6 20-25'	S	02-24-12 10:51	20 - 25 ft	437672-037
SB-6 25-30'	S	02-24-12 10:52	25 - 30 ft	437672-038
SB-6 30-35'	S	02-24-12 10:53	30 - 35 ft	437672-039
SB-6 35-40'	S	02-24-12 10:54	35 - 40 ft	437672-040
SB-6 40-45'	S	02-24-12 10:55	40 - 45 ft	437672-041
SB-6 45-50'	S	02-24-12 10:57	45 - 50 ft	437672-042
SB-6 50-55'	S	02-24-12 10:58	50 - 55 ft	437672-043



Sample Cross Reference 437672



Conestoga Rovers & Associates, Midland, TX

		State G		
SB-6 55-60'	S	02-24-12 10:59	55 - 60 ft	437672-044
SB-6 60-65'	S	02-24-12 11:00	60 - 65 ft	437672-045
SB-6 65-70'	S	02-24-12 11:01	65 - 70 ft	437672-046
SB-6 70-75'	S	02-24-12 11:02	70 - 75 ft	437672-047
SB-6 75-80'	S	02-24-12 11:04	75 - 80 ft	437672-048
SB-7 0-5'	S	02-24-12 09:17	0 - 5 ft	437672-049
SB-7 5-10'	S	02-24-12 09:18	5 - 10 ft	437672-050
SB-7 10-15'	S	02-24-12 09:22	10 - 15 ft	437672-051
SB-7 15-20'	S	02-24-12 09:26	15 - 20 ft	437672-052
SB-7 20-25'	S	02-24-12 09:27	20 - 25 ft	437672-053
SB-7 25-30'	S	02-24-12 09:29	25 - 30 ft	437672-054
SB-7 30-35'	S	02-24-12 09:30	30 - 35 ft	437672-055
SB-7 35-40'	S	02-24-12 09:31	35 - 40 ft	437672-056
SB-7 40-45'	S	02-24-12 09:32	40 - 45 ft	437672-057
SB-7 45-50'	S	02-24-12 09:33	45 - 50 ft	437672-058
SB-7 50-55'	S	02-24-12 09:33	50 - 55 ft	437672-059
SB-7 55-60'	S	02-24-12 09:34	55 - 60 ft	437672-060
SB-7 60-65'	S	02-24-12 09:19	60 - 65 ft	437672-061
SB-7 65-70'	S	02-24-12 09:20	65 - 70 ft	437672-062
SB-7 70-75'	S	02-24-12 09:21	70 - 75 ft	437672-063
SB-7 75-80'	S	02-24-12 09:22	75 - 80 ft	437672-064



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates Project Name: State G



Project ID:042079Work Order Number:437672

Report Date: 08-MAR-12 Date Received: 02/27/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am

roject Location: New Mexico								Report	Date:	08-MAR-12			
								Project Ma	nager:	Brent Barron	II		
	Lab Id:	437672-0	001	437672-0	002	437672-0	003	437672-0	004	437672-0	05	437672-0)06
Amaluaia Dogwootod	Field Id:	SB-4 0-	5'	SB-4 5-1	0'	SB-4 10-	15'	SB-4 15-2	20'	SB-4 20-2	25'	SB-4 25-	30'
Analysis Kequestea	Depth:	0-5 ft		5-10 ft		10-15 f	ť	15-20 f	ť	20-25 f	t	25-30 f	ft
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	09:52	Feb-24-12 (09:53	Feb-24-12 (09:55	Feb-24-12 09:56		Feb-24-12 09:57		Feb-24-12	09:58
Anions by E300	Extracted:												
	Analyzed:	Mar-05-12	Mar-05-12 10:01		10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.9	4.67	24.3	4.63	70.6	4.59	96.2	4.48	158	4.49	204	4.46
Percent Moisture	Extracted:												
	Analyzed:	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12 1	14:55	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12	14:55
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.1	1.00	9.33	1.00	8.56	1.00	6.27	1.00	6.50	1.00	5.74	1.00

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Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Toject Location. New Mexico								Project Ma	nager:	Brent Barron	П		
	Lab Id:	437672-0	007	437672-008		437672-0	009	437672-0	010	437672-0	011	437672-012	
Analysis Degreested	Field Id:	SB-4 30-	35'	SB-4 35-4	40'	SB-4 40-	45'	SB-4 45-	50'	SB-4 50-	55'	SB-4 55-	-60'
Analysis Kequestea	Depth:	30-35	ft	35-40 ft		40-45 ft		45-50 ft		50-55 ft		55-60	ft
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	10:00	Feb-24-12	10:01	Feb-24-12	10:02	Feb-24-12	10:03	Feb-24-12	10:05	Feb-24-12	10:06
Anions by E300	Extracted:												
	Analyzed:	Mar-05-12	Mar-05-12 10:01		10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		314	8.98	333	8.88	357	8.86	326	8.82	370	8.99	279	4.46
Percent Moisture	Extracted:												
	Analyzed:	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12	15:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.43	1.00	5.45	1.00	5.18	1.00	4.77	1.00	6.60	1.00	5.91	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Toject Location: New Mexico								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0	013	437672-014		437672-0)15	437672-0	16	437672-0	017	437672-018	
Analysis Degreested	Field Id:	SB-4 60-	-65'	SB-4 65-	70'	SB-4 70-	75'	SB-4 75-	80'	SB-5 0-	5'	SB-5 5-	10'
Analysis Kequesiea	Depth:	60-65	ft	65-70 f	t	70-75 ft		75-80 ft		0-5 ft		5-10 f	ť
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Feb-24-12	10:07	Feb-24-12	10:08	Feb-24-12	10:09	Feb-24-12	10:10	Feb-24-12	10:15	Feb-24-12	10:17
Anions by E300	Extracted:												
	Analyzed:	Mar-05-12	Mar-05-12 10:01		10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-06-12	09:36	Mar-06-12	09:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		291	4.46	371	8.87	414	8.83	395	8.74	365	9.00	189	9.16
Percent Moisture	Extracted:												
	Analyzed:	Feb-27-12	15:05	Feb-27-12	15:05	Feb-27-12	15:05	Feb-27-12	15:05	Feb-27-12	15:11	Feb-27-12	15:11
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.77	1.00	5.32	1.00	4.86	1.00	3.91	1.00	6.71	1.00	8.33	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

roject Location: New Mexico													
i oject Location. They mented								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0)19	437672-020		437672-0	021	437672-0	022	437672-0	23	437672-	024
An aluaia Do an antal	Field Id:	SB-5 10-	15'	SB-5 15-2	20'	SB-5 20-2	25'	SB-5 25-	30'	SB-5 30-3	35'	SB-5 35-	-40'
Analysis Kequesied	Depth:	10-15	ft	15-20 f	t	20-25 f	ì	25-30 f	ť	30-35 f	t	35-40	ft
	Matrix:	SOIL	SOIL		SOIL		SOIL			SOIL		SOIL	
	Sampled:	Feb-24-12 10:19		Feb-24-12 1	0:22	Feb-24-12 10:23		Feb-24-12	10:24	Feb-24-12	10:25	Feb-24-12	10:27
Anions by E300	Extracted:												
	Analyzed:	Mar-06-12	Mar-06-12 09:36)9:36	Mar-06-12 (09:36	Mar-06-12	09:36	Mar-06-12 (09:36	Mar-06-12	09:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		437	9.25	868	18.1	990	18.0	627	8.89	414	8.91	411	8.91
Percent Moisture	Extracted:												
Analyze		Feb-27-12	15:11	Feb-27-12 1	5:11	Feb-27-12 1	15:11	Feb-27-12	15:11	Feb-27-12	15:11	Feb-27-12	15:11
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.20	1.00	7.07	1.00	6.42	1.00	5.52	1.00	5.77	1.00	5.68	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Toject Location: New Mexico								Project Ma	nager:	Brent Barron I	Π		
	Lab Id:	437672-0)25	437672-026		437672-0	027	437672-0	28	437672-0	29	437672-030	
Analysis Peavested	Field Id:	SB-5 40-	45'	SB-5 45-	50'	SB-5 50-	55'	SB-5 55-	50'	SB-5 60-	65'	SB-5 65-	-70'
Analysis Kequesieu	Depth:	40-45 ±	ft	45-50 f	ìt	50-55 f	ît 🛛	55-60 f	t	60-65 f	t	65-70	ft
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Feb-24-12	10:29	Feb-24-12	10:30	Feb-24-12	10:31	Feb-24-12	0:33	Feb-24-12	10:34	Feb-24-12	10:35
Anions by E300	Extracted:												
	Analyzed:	Mar-06-12	Mar-06-12 09:36		09:36	Mar-06-12	09:36	Mar-06-12)9:36	Mar-06-12	09:36	Mar-06-12	09:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		373	4.42	380	4.43	641	9.01	500	8.88	463	8.90	398	8.84
Percent Moisture	Extracted:												
Analyze		Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12	1:05	Feb-28-12	11:05	Feb-28-12	11:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.97	1.00	5.21	1.00	6.74	1.00	5.45	1.00	5.67	1.00	5.01	1.00

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Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

rolect Location: New Mexico								1					
i oject Lietatoni. New Mexico								Project Mai	nager:	Brent Barron	Π		
	Lab Id:	437672-0	031	437672-032		437672-0	33	437672-0	34	437672-0	35	437672-036	
Anglusia Degregated	Field Id:	SB-5 70-	75'	SB-5 75-	80'	SB-6 0-	5'	SB-6 5-1	0'	SB-6 10-	15'	SB-6 15-	-20'
Analysis Kequestea	Depth:	70-75 d	ft	75-80 f	t l	0-5 ft		5-10 ft		10-15 f	t	15-20 f	ft
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12 10:36		Feb-24-12	10:38	Feb-24-12	10:46	Feb-24-12 10:47		Feb-24-12	10:48 Feb-24-12 10		10:49
Anions by E300	Extracted:												
	Analyzed:	Mar-06-12	Mar-06-12 09:36		09:36	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		428	8.82	365	8.73	1110	17.6	1530	18.1	1170	18.1	965	8.93
Percent Moisture	Extracted:												
Analyzed		Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12 1	1:05	Feb-28-12	11:05	Feb-28-12	11:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.77	1.00	3.77	1.00	4.77	1.00	7.20	1.00	7.00	1.00	5.97	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Toject Location: New Mexico								Project Ma	nager:	Brent Barron I	Π		
	Lab Id:	437672-0	037	437672-038		437672-0	39	437672-0	40	437672-0	41	437672-042	
Analysis Paguastad	Field Id:	SB-6 20-	-25'	SB-6 25-	30'	SB-6 30-3	35'	SB-6 35-4	40'	SB-6 40-4	45'	SB-6 45-	-50'
Analysis Kequesied	Depth:	20-25	ft	25-30 f	ì	30-35 f	t	35-40 ft		40-45 ft		45-50 ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Feb-24-12 10:51		Feb-24-12	10:52	Feb-24-12 10:53		Feb-24-12 10:54		Feb-24-12	10:55	Feb-24-12	10:57
Anions by E300	Extracted:												
	Analyzed:	Mar-07-12	Mar-07-12 15:50		15:50	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50	Mar-08-12	00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1040	18.0	857	8.81	886	8.82	934	8.90	716	8.83	297	4.37
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12 1	11:05	Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12	11:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.46	1.00	4.64	1.00	4.76	1.00	5.65	1.00	4.83	1.00	3.91	1.00

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Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Toject Location. New Mexico								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0	043	437672-044		437672-0	45	437672-0	946	437672-0	47	437672-048	
Analysis Pogyostad	Field Id:	SB-6 50-	-55'	SB-6 55-	SB-6 55-60'		SB-6 60-65'		SB-6 65-70'		SB-6 70-75'		-80'
Analysis Kequested	Depth:	50-55 d	ft	55-60 f	t	60-65 f	60-65 ft		65-70 ft		70-75 ft		ft
	Matrix:	SOIL	SOIL		SOIL		SOIL			SOIL		SOIL	
	Sampled:	Feb-24-12 10:58		Feb-24-12 10:59		Feb-24-12 11:00		Feb-24-12 11:01		Feb-24-12 11:02		Feb-24-12 11:	
Anions by E300	Extracted:												
	Analyzed:	Mar-08-12	Mar-08-12 00:15		00:15	Mar-08-12	00:15	Mar-08-12	00:15	Mar-08-12	00:15	Mar-08-12	00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		209	4.47	10.2	4.44	97.0	4.45	31.0	4.41	18.2	4.42	18.1	4.37
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12	11:30	Feb-28-12	11:30	Feb-28-12	11:30	Feb-28-12	11:30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.07	1.00	5.49	1.00	5.63	1.00	4.77	1.00	4.99	1.00	3.86	1.00

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Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am

Project Location: New Mexico								Report	Date:	08-MAR-12			
								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0	049	437672-0)50	437672-0	051	437672-0)52	437672-0)53	437672-0	054
Analysis Dogwood	Field Id:	SB-7 0-	-5'	SB-7 5-1	10'	SB-7 10-	15'	SB-7 15-3	20'	SB-7 20-	25'	SB-7 25-	-30'
Analysis Kequesiea	Depth:	0-5 ft		5-10 ft	t	10-15 f	ì	15-20 f	ì	20-25 f	ît	25-30 1	ft
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Feb-24-12	09:17	Feb-24-12	09:18	Feb-24-12 (09:22	Feb-24-12 (09:26	Feb-24-12 (09:27	Feb-24-12	09:29
Anions by E300	Extracted:												
	Analyzed:	Mar-08-12	00:15	Mar-08-12	00:15	Mar-08-12 (00:15	Mar-08-12	00:15	Mar-08-12	00:15	Mar-08-12	00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		432	8.80	832	8.84	1650	18.2	1500	17.9	1460	17.9	1080	17.7
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	12:30	Feb-28-12	12:30	Feb-28-12 1	12:30	Feb-28-12	12:30	Feb-28-12	12:30	Feb-28-12	12:30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.53	1.00	4.95	1.00	7.60	1.00	5.99	1.00	6.08	1.00	4.93	1.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

roject Location: New Mexico													
reject Location, rich freshed								Project Ma	nager:	Brent Barron I	Ι		
	Lab Id:	437672-0	055	437672-0	56	437672-0	57	437672-0	58	437672-0	59	437672-0)60
Amaluaia Dogwootod	Field Id:	SB-7 30-	35'	SB-7 35-4	40'	SB-7 40-4	45'	SB-7 45-	50'	SB-7 50-3	55'	SB-7 55-	-60'
Analysis Kequesiea	Depth:	30-35 t	ft	35-40 f	ì	40-45 f	ì	45-50 f	t	50-55 f	t	55-60 t	ft
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	09:30	Feb-24-12 (09:31	Feb-24-12 (09:32	Feb-24-12 ()9:33	Feb-24-12 ()9:33	Feb-24-12	09:34
Anions by E300	Extracted:												
	Analyzed:	Mar-08-12	00:15	Mar-08-12 (00:15	Mar-08-12 (00:15	Mar-08-12	00:15	Mar-08-12 (00:15	Mar-08-12	00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		980	8.83	972	8.86	1000	17.7	975	8.82	1310	17.9	1190	17.9
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	12:30	Feb-28-12	12:30	Feb-28-12 1	12:30	Feb-28-12	12:30	Feb-28-12 1	2:30	Feb-28-12	12:42
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.83	1.00	5.17	1.00	5.12	1.00	4.71	1.00	6.08	1.00	6.30	1.00

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Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw oject Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Project Location: New Mexico								кероп	Date:	08-MAK-12	
								Project Mai	nager:	Brent Barron II	
	Lab Id:	437672-0	61	437672-0	62	437672-0	63	437672-0	64		
Analysis Paguested	Field Id:	SB-7 60-6	55'	SB-7 65-7	70'	SB-7 70-7	75'	SB-7 75-8	80'		
Analysis Kequestea	Depth:	60-65 ft	:	65-70 f	t	70-75 f	ť	75-80 f	ť		
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Feb-24-12 0	9:19	Feb-24-12 (9:20	Feb-24-12 (09:21	Feb-24-12 ()9:22		
Anions by E300	Extracted:										
	Analyzed:	Mar-05-12 1	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		1040 D	17.9	348	4.43	164	4.39	154	4.35		
Percent Moisture	Extracted:										
	Analyzed:	Feb-28-12 1	2:42	Feb-28-12 1	2:42	Feb-28-12 1	12:42	Feb-28-12 1	12:42		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		6.09	1.00	5.16	1.00	4.27	1.00	3.54	1.00		

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Brent Barron II Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SDL Samp	le Detection Limit LOD Limit of Detection
-------------------------------------	---

- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	





Project Name: State G

Work Order #: 437672				042079				
Lab Batch #: 882942	Sa	ample: 882942-	1-BKS	Matrix				
Date Analyzed: 03/06/2012	Date Pre	pared: 03/06/20	012	Analyst	BRB			
Reporting Units: mg/kg	Ba	atch #: 1	BLANK /	BLANK /BLANK SPIKE RECOVER				
Anions by E300		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags	
Analytes		[]	[-]	[C]	[D]	,		
Chloride		<0.840	20.0	18.6	93	75-125		
Lab Batch #: 882943	Sa	ample: 882943-	1-BKS	Matrix	Solid			
Date Analyzed: 03/05/2012	Date Pre	pared: 03/05/20	012					
Reporting Units: mg/kg	Ba	atch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY	
Anions by E300		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags	
Chloride		<0.840	20.0	18.7	94	75-125		

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit





Project Name: State G

Work Order #: 437672								Pro	ject ID: ()42079		
Analyst: BRB		Da	ate Prepar	red: 03/07/201	2			Date A	nalyzed: ()3/07/2012		
Lab Batch ID: 883085	Sample: 883085-1-B	KS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / H	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	Ŷ	
Anions by I	E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride		<0.840	20.0	19.8	99	20.0	19.8	99	0	75-125	20	
Analyst: BRB		Da	ate Prepar	red: 03/08/201	2			Date A	nalyzed: ()3/08/2012		
Lab Batch ID: 883089	Sample: 883089-1-B	KS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / H	BLANK S	SPIKE DUPI	LICATE	RECOVE	ERY STUD	Ŷ	
Anions by 1	E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride		<0.840	20.0	19.7	99	20.0	19.6	98	1	75-125	20	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G



Work Order #: 437672						
Lab Batch #: 882942			Pr	oject ID:	: 042079	
Date Analyzed: 03/06/2012	Date Prepared: 03	3/06/2012	Α	nalyst: B	BRB	
QC- Sample ID: 437672-023 S	Batch #:	1	1	Matrix: S	oil	
Reporting Units: mg/kg	MA	TRIX / MA	ATRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes		212	640		75.105	
Chloride	414	212	649	111	75-125	
Lab Batch #: 882942						
Date Analyzed: 03/06/2012	Date Prepared: 03	3/06/2012	A	nalyst: B	RB	
QC- Sample ID: 438142-001 S	Batch #:	1]	Matrix: S	oil	
Reporting Units: mg/kg	MA	TRIX / MA	ATRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Allalytes	10.5	101	126	102	75.105	
Chloride	12.5	121	136	102	/5-125	
Lab Batch #: 882943						
Date Analyzed: 03/05/2012	Date Prepared: 03	3/05/2012	A	nalyst: B	RB	
QC- Sample ID: 437672-001 S	Batch #:	1]	Matrix: S	oil	
Reporting Units: mg/kg	MA	TRIX / MA	ATRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	18.9	111	134	104	75-125	
Lab Batch #: 882943						
Date Analyzed: 03/05/2012	Date Prepared: 03	3/05/2012	A	nalyst: B	RB	
QC- Sample ID: 437672-011 S	Batch #:	1]	Matrix: S	loil	
Reporting Units: mg/kg	MA	TRIX / MA	TRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	370	214	616	115	75-125	+
	570		010	115	10 120	1

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G

Work Order #: 437672							
Lab Batch #: 883085				Pro	oject ID:	042079	
Date Analyzed: 03/07/2012	Date P	repared: 03/07	7/2012	A	nalyst: B	RB	
QC- Sample ID: 438034-001 S	Batch #: 1 Matrix: Soil						
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUD						DY
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		9.88	102	111	99	75-125	
Lab Batch #: 883089 Date Analyzed: 03/08/2012	Date P	repared: 03/08	3/2012	А	nalvst: B	RB	
QC- Sample ID: 437672-042 S		Batch #: 1		1	Matrix: So	oil	
Reporting Units: mg/kg	ĺ	MATR	RIX / MA	TRIX SPIKE	RECOV	ERY STU	DY
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		297	104	426	124	75-125	
Lab Batch #: 883089 Date Analyzed: 03/08/2012	Date P	repared: 03/08	8/2012	A	nalyst: B	RB	
QC- Sample ID: 437672-052 S		Batch #: 1		1	Matrix: So	oil	
Reporting Units: mg/kg		MATR	RIX / MA	TRIX SPIKE	RECOV	ERY STU	DY
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		1500	425	2000	118	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes



Work Order #: 437672

Sample Duplicate Recovery



Project Name: State G

Lab Batch #: 882942 Date Analyzed: 03/06/2012 09:36 Da QC- Sample ID: 438142-001 D	ate Prepare Batch	ed: 03/06/2012 #: 1	2 Ana Mat	Project I lyst:BRB crix: Soil	D: 042079	OVEDV
Anions by E300 Analyte]	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		12.5	12.2	2	20	
Lab Batch #: 882943 Date Analyzed: 03/05/2012 10:01 Date QC- Sample ID: 437672-001 D	ate Prepare Batch	ed: 03/05/2012 #: 1	Ana Mat	lyst:BRB rix: Soil	ATE DEC	OVEDV
Anions by E300 Analyte]	SAMPLE / Parent Sample Result [A]	SAMPLE Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		18.9	23.2	20	20	
Lab Batch #: 883085 Date Analyzed: 03/07/2012 15:50 QC- Sample ID: 438034-001 D	ate Prepare Batch	ed: 03/07/2012 #: 1	Ana Mat	lyst:BRB rix: Soil		
Reporting Units: mg/kg		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte]	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		9.88	9.22	7	20	
Lab Batch #: 883085 Date Analyzed: 03/07/2012 15:50 Date OC- Sample ID: 438034-011 D	ate Prepare Batch	ed: 03/07/2012 #: 1	2 Ana Mat	lyst:BRB rix: Soil		<u>.</u>
Reporting Units: mg/kg]	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte]	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		310	293	6	20	

Spike Relative Difference RPD 200 * $|\,(B\text{-}A)/(B\text{+}A)\,|$ All Results are based on MDL and validated for QC purposes.



Work Order #: 437672

Sample Duplicate Recovery



Project Name: State G

Lab Batch #: 883089 Date Analyzed: 03/08/2012 00:15 Date P QC- Sample ID: 437672-042 D	Prepare Batch	d:03/08/2012 #: 1	2 Ana Mat	Project I lyst: BRB rix: Soil	D: 042079	
Reporting Units: mg/kg	Г	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte	I	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		297	297	0	20	
Lab Batch #: 882343 Date Analyzed: 02/27/2012 13:00 QC- Sample ID: 437671-001 D Reporting Units: %	Prepare Batch	d: 02/27/2012 #: 1 SAMPLE /	2 Ana Mat / SAMPLE	lyst:BRB rix: Soil	ATE REC	OVERY
Percent Moisture Analyte	F	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		8.99	8.74	3	20	
Lab Batch #: 882344 Date Analyzed: 02/27/2012 15:11 Date P QC- Sample ID: 437672-017 D Reporting Units: %	Prepare Batch	d: 02/27/2012 #: 1 SAMPLE /	2 Ana Mat V SAMPLE	lyst:BRB rix: Soil DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	I	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		6.71	6.95	4	20	
Lab Batch #: 882450 Date Analyzed: 02/28/2012 11:05 Date P QC- Sample ID: 437672-025 D	Prepare Batch	d:02/28/2012 #: 1	2 Ana Mat	lyst:BRB rix: Soil		
Reporting Units: %	Г	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	F	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		4.97	5.23	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |

All Results are based on MDL and validated for QC purposes.



Sample Duplicate Recovery



Project Name: State G

Work Order #: 437672

Lab Batch #: 882452 Date Analyzed: 02/28/2012 11:30 QC- Sample ID: 437672-045 D	Date Prepar Batch	red: 02/28/2012 h #: 1	2 Anal Mat	Project I yst:BRB rix: Soil	D: 042079	
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		5.63	5.43	4	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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Page 31 of 32



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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client:	CRA	
Date/Time:	2.27.12 10:59	
Lab ID # :	437672	
Initials:	AE.	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(NA)	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	NO		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples property preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yee	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(NA)	
17. VOC sample have zero head space?	Yes	No	(NA)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0	Cooler 5 No.	
lbs 3.0° c lbs $^{\circ}$ c lbs	°C ibs	°(C lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:	,		
Corrective Action Take	n:		
Check all that apply:	□ Cooling process has begun shortly after sa	mpling event and out of temperature	

 Cooling process has begun shortly after sampling event and out of temper condition acceptable by NELAC 5.5.8.3.1.a.1.
 Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis
Analytical Report 445445

for

Conestoga Rovers & Associates

Project Manager: Desiree Crenshaw

State G

042079-2012-02

16-JUL-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



16-JUL-12



Project Manager: **Desiree Crenshaw Conestoga Rovers & Associates** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No: 445445 State G Project Address: New Mexico

Desiree Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 445445. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 445445 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully

Nicholas Straccione Project Manager

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Sample Cross Reference 445445



Conestoga Rovers & Associates, Midland, TX

State G

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Site A NW Wall	S	07-10-12 17:00	0 - 2.5 ft	445445-001
Site A NE Wall	S	07-10-12 17:00	0 - 2.5 ft	445445-002
Site A SW Wall	S	07-11-12 10:00	0 - 2.5 ft	445445-003
Site A SE Wall	S	07-11-12 10:05	0 - 2.5 ft	445445-004
Site A N Floor	S	07-11-12 10:10	0 - 2.5 ft	445445-005
Site A S Floor	S	07-11-12 10:15	0 - 2.5 ft	445445-006
Site B NW Wall	S	07-11-12 10:20	0 - 2.5 ft	445445-007
Site B NE Wall	S	07-11-12 10:25	0 - 2.5 ft	445445-008
Site B SW Wall	S	07-11-12 10:30	0 - 2.5 ft	445445-009
Site B SE Wall	S	07-11-12 10:35	0 - 2.5 ft	445445-010
Site B Floor	S	07-11-12 10:40	0 - 2.5 ft	445445-011



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates Project Name: State G



 Project ID:
 042079-2012-02

 Work Order Number:
 445445

Report Date: 16-JUL-12 Date Received: 07/11/2012

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-892030 TPH By SW8015 Mod SW8015MOD_NM

Batch 892030, 1-Chlorooctane, o-Terphenyl recovered above QC limits Data confirmed by reanalysis. Samples affected are: 624446-1-BKS.

SW8015MOD_NM

Batch 892030, C12-C28 DRO recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 445445-010, -004, -005, -001, -002, -007, -008, -006, -003, -009, -011. The Laboratory Control Sample for C12-C28 DRO is within laboratory Control Limits



Certificate of Analysis Summary 445445

Conestoga Rovers & Associates, Midland, TX

Project Name: State G

Project Id: 042079-2012-02 Contact: Desiree Crenshaw Project Location: New Mexico



Date Received in Lab: Wed Jul-11-12 03:05 pm

Report Date: 16-JUL-12

								Project Mai	nager:	Nicholas Strac	cione		
	Lab Id:	445445-0	001	445445-0	002	445445-0	003	445445-0	04	445445-0	05	445445-0)06
Analysis Paguastad	Field Id:	Site A NW	Wall	Site A NE	Wall	Site A SW	Wall	Site A SE	Wall	Site A N F	loor	Site A S F	loor
Analysis Kequesiea	Depth:	0-2.5 f	t	0-2.5 f	t	0-2.5 ft	t	0-2.5 ft	:	0-2.5 ft		0-2.5 f	ť
	Matrix:	SOLIE	>	SOLIE	>	SOLID	b	SOLID	,	SOLID		SOLID	
	Sampled:	Jul-10-12 1	7:00	Jul-10-12 17:00		Jul-11-12 10:00		Jul-11-12 10:05		Jul-11-12 1	0:10	Jul-11-12 1	0:15
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-13-12 (Jul-13-12 02:53		Jul-13-12 03:09		Jul-13-12 03:25		Jul-13-12 03:41		3:57	Jul-13-12 0)4:46
SUB: E871002	Analyzed:	Analyzed: Jul-13-12 02:		Jul-13-12 0	03:09	Jul-13-12 0	3:25	Jul-13-12 0	3:41	Jul-13-12 0	3:57	Jul-13-12 0)4:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1210	11.3	377	10.9	685	11.1	1190	12.4	1470	13.0	794	11.6
Percent Moisture	Extracted:												
	Analyzed:	Jul-11-12	16:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		11.9	1.00	8.15	1.00	10.3	1.00	19.2	1.00	23.3	1.00	14.0	1.00
TPH By SW8015 Mod	Extracted:	Jul-11-12	16:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00
	Analyzed:	Jul-12-12 ()1:29	Jul-12-12 0)1:58	Jul-12-12 0	2:27	Jul-12-12 0	2:55	Jul-12-12 0	3:25	Jul-12-12 0)3:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 GRO		ND	17.0	ND	16.3	ND	83.3	ND	18.5	ND	97.5	ND	17.4
C12-C28 DRO		941	17.0	925	16.3	1410	83.3	272	18.5	6980	97.5	598	17.4

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Ch-Nul

Nicholas Straccione Project Manager



Certificate of Analysis Summary 445445

Conestoga Rovers & Associates, Midland, TX

Project Name: State G





Date Received in Lab: Wed Jul-11-12 03:05 pm

Report Date: 16-JUL-12

								Project Mar	nager: 1	Nicholas Strac	cione	
	Lab Id:	445445-(007	445445-0	08	445445-0	009	445445-0	10	445445-0	11	
Analysis Paguastad	Field Id:	Site B NW	Wall	Site B NE	Wall	Site B SW	Wall	Site B SE V	Wall	Site B Flo	oor	
Analysis Kequestea	Depth:	0-2.5 f	t	0-2.5 ft	t	0-2.5 ft		0-2.5 ft		0-2.5 ft	:	
	Matrix:	SOLIE	b	SOLID		SOLID		SOLID		SOLID	,	
	Sampled:	Jul-11-12 1	0:20	Jul-11-12 1	0:25	Jul-11-12 1	0:30	Jul-11-12 1	0:35	Jul-11-12 1	0:40	
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-13-12 (05:02	Jul-13-12 05:18		Jul-13-12 05:34		Jul-13-12 05:50		Jul-13-12 0	6:06	
SUB: E871002	Analyzed:	Jul-13-12 (05:02	Jul-13-12 0	5:18	Jul-13-12 0)5:34	Jul-13-12 0	5:50	Jul-13-12 0	6:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		78.1	1.11	53.2	1.11	293	1.08	106	1.14	111	1.14	
Percent Moisture	Extracted:											
	Analyzed:	Jul-11-12	16:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		10.1	1.00	9.77	1.00	7.83	1.00	12.5	1.00	12.3	1.00	
TPH By SW8015 Mod	Extracted:	Jul-11-12	16:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	
	Analyzed:	Jul-12-12 (04:27	Jul-12-12 0	4:56	Jul-12-12 0)5:25	Jul-12-12 0	5:53	Jul-12-12 0	7:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
5-C12 GRO		ND	16.7	ND	82.7	18.5	16.2	ND	17.1	25.4	17.0	
C12-C28 DRO		809	16.7	1710	82.7	2940	16.2	820	17.1	580	17.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nul

Nicholas Straccione Project Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 (432) 563-1713

 (770) 449-8800
 (770) 449-5477

 (602) 437-0330
 (432) 563-1713

Final 1.000



Project Name: State G

Work Orders : 445445	,	Project ID: 042079-2012-02									
Lab Batch #: 892030	Sample: 445445-001 / SMP	Batc	h: ¹ Matrix	Solid							
Units: mg/kg	Date Analyzed: 07/12/12 01:29	SU	RROGATE RI	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		82.1	99.8	82	70-135						
o-Terphenyl		45.3	49.9	91	70-135						
Lab Batch #: 892030	Sample: 445445-002 / SMP	Batc	h: ¹ Matrix	Solid							
Units: mg/kg	Date Analyzed: 07/12/12 01:58	SU	RROGATE RI	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane	-	86.1	100	86	70-135						
o-Terphenyl		46.6	46.6 50.0 93								
Lab Batch #: 892030	Sample: 445445-003 / SMP	Batch: 1 Matrix: Solid									
Units: mg/kg	Date Analyzed: 07/12/12 02:27	SU	SURROGATE RECOVERY STUDY								
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		87.9	99.6	88	70-135						
o-Terphenyl		47.7	49.8	96	70-135						
Lab Batch #: 892030	Sample: 445445-004 / SMP	Batc	h: 1 Matrix	Solid	•						
Units: mg/kg	Date Analyzed: 07/12/12 02:55	SU	RROGATE RI	ECOVERY	STUDY						
TPH]	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane	11111 y to 5	89.3	99.7	90	70-135						
o-Terphenyl		49.2	49.9	99	70-135						
Lab Batch #: 892030	Sample: 445445-005 / SMP	Batc	h: 1 Matrix	Solid	I						
Units: mg/kg	Date Analyzed: 07/12/12 03:25	SURROGATE RECOVERY STUDY									
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		93.6	99.8	94	70-135						
o-Terphenyl		65.2	49.9	131	70-135						

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

Work Orders : 445445	,	Project ID: 042079-2012-02									
Lab Batch #: 892030	Sample: 445445-006 / SMP	Batc	h: ¹ Matrix:	Solid							
Units: mg/kg	Date Analyzed: 07/12/12 03:57	SU	RROGATE RI	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		85.1	99.8	85	70-135						
o-Terphenyl		45.8	49.9	92	70-135						
Lab Batch #: 892030	Sample: 445445-007 / SMP	Batc	h: ¹ Matrix:	Solid							
Units: mg/kg	Date Analyzed: 07/12/12 04:27	SU	RROGATE RI	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane	-	91.1	100	91							
o-Terphenyl		50.0	50.0 50.1 100								
Lab Batch #: 892030	Sample: 445445-008 / SMP	Batch: 1 Matrix:Solid									
Units: mg/kg	Date Analyzed: 07/12/12 04:56	SU	STUDY								
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		92.0	99.5	92	70-135						
o-Terphenyl		50.0	49.8	100	70-135						
Lab Batch #: 892030	Sample: 445445-009 / SMP	Batc	h: 1 Matrix:	Solid	1	I					
Units: mg/kg	Date Analyzed: 07/12/12 05:25	SU	RROGATE RI	ECOVERY	STUDY						
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			լոյ							
1-Chlorooctane		87.7	99.8	88	70-135						
o-Terphenyl		47.5	49.9	95	70-135						
Lab Batch #: 892030	Sample: 445445-010 / SMP	IP Batch: 1 Matrix: Solid									
Units: mg/kg	Date Analyzed: 07/12/12 05:53	SU	RROGATE RI	ECOVERY	STUDY						
TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		90.6	99.7	91	70-135						
o-Terphenyl		48.8	70-135								

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

Work Orders : 445445	,	Project ID: 042079-2012-02								
Lab Batch #: 892030	Sample: 445445-011 / SMF	Bate	h: ¹ Matrix:	Solid						
Units: mg/kg	Date Analyzed: 07/12/12 07:26	SU	RROGATE RI	ECOVERY	STUDY					
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		88.2	99.5	89	70-135					
o-Terphenyl		47.9	49.8	96	70-135					
Lab Batch #: 892030	Sample: 624446-1-BLK / B	LK Bate	h: ¹ Matrix:	Solid						
Units: mg/kg	Date Analyzed: 07/12/12 01:01	SU	RROGATE RI	ECOVERY	STUDY					
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		88.9	100	89	70-135					
o-Terphenyl		49.8	50.0	100	70-135					
Lab Batch #: 892030	Sample: 624446-1-BKS / B	KS Batc	h: ¹ Matrix:	Solid	I					
Units: mg/kg	Date Analyzed: 07/12/12 00:03	SURROGATE RECOVERY STUDY								
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1 Chlorooctana	Analytes	155	100	155	70.125	ske ske				
o-Terphenyl		93.5	50.0	133	70-135	**				
	S 624446 1 DSD / D	SD B -4-1		Solid	/0133					
Lab Batch #: 892030	Sample: 024440-1-BSD/B		REACTE RE	COVERV	STUDV					
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1-Chlorooctane		97.9	100	98	70-135					
o-Terphenyl		49.9	50.0	100	70-135					
Lab Batch #: 892030	Sample: 445445-002 S / M	MS Batch: 1 Matrix: Solid								
Units: mg/kg	Date Analyzed: 07/12/12 07:56	SU	RROGATE RI	ECOVERY	STUDY					
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		103	100	103	70-135					
o-Terphenyl		51.3	70-135	70-135						

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

Work Orders: 445445,		Project ID: 042079-2012-02												
Lab Batch #: 892030	Sample: 445445-002 SD / N	ASD Bate	h: ¹ Matrix:	Solid										
Units: mg/kg	Date Analyzed: 07/12/12 08:26	SURROGATE RECOVERY STUDY												
ТРН В	y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags								
1-Chlorooctane		103	100	103	70-135									
o-Terphenyl		51.2	50.0	102	70-135									

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution





Project Name: State G

Work Order #: 445445		Project ID: 042079-2012-02												
Analyst: TTE		Da	ate Prepar	ed: 07/13/201	2			Date A	nalyzed: (07/13/2012				
Lab Batch ID: 892136	Sample: 624506-1-B	SKS	Batcl	n#: 1					Matrix: S	Solid				
Units: mg/kg			BLAN	K /BLANK S	SPIKE / B	BLANK S	PIKE DUPI	ICATE 1	RECOVE	ERY STUD	Y			
Inorganic Anions by]	EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]						
Chloride		<1.00	100	102	102	96.8	96.8 97 5 80-120 20							
Analyst: KEB		Da	ate Prepar	ed: 07/11/201	2			Date A	nalyzed: ()	07/12/2012				
Analyst: KEB Lab Batch ID: 892030	Sample: 624446-1-B	Da BKS	ate Prepar Batcl	ed: 07/11/201 n #: 1	2			Date A	nalyzed: () Matrix: S	07/12/2012 Solid				
Analyst: KEB Lab Batch ID: 892030 Units: ^{mg/kg}	Sample: 624446-1-B	Da BKS	ate Prepar Batcl BLAN	ed: 07/11/201 n #: 1 K /BLANK S	2 SPIKE / B	BLANK S	PIKE DUPI	Date A	nalyzed: () Matrix: ^S RECOVE	07/12/2012 Solid E RY STUD)Y			
Analyst: KEB Lab Batch ID: 892030 Units: mg/kg TPH By SW80	Sample: 624446-1-B 15 Mod	Da BKS Blank Sample Result [A]	ate Prepar Batcl BLAN Spike Added	ed: 07/11/201 n #: 1 K /BLANK S Blank Spike Result	2 SPIKE / B Blank Spike %R	Spike Added	PIKE DUPI Blank Spike Duplicate	Date A	nalyzed: () Matrix: S RECOVE RPD %	o7/12/2012 Solid ERY STUD Control Limits %R	Control Limits %RPD	Flag		
Analyst: KEB Lab Batch ID: 892030 Units: ^{mg/kg} TPH By SW80 Analytes	Sample: 624446-1-B 15 Mod	Da BKS Blank Sample Result [A]	ate Prepar Batcl BLAN Spike Added [B]	ed: 07/11/201 n #: 1 K /BLANK S Blank Spike Result [C]	2 SPIKE / B Blank Spike %R [D]	BLANK S Spike Added [E]	PIKE DUPI Blank Spike Duplicate Result [F]	Date A	nalyzed: () Matrix: S RECOVE RPD %	07/12/2012 Solid ERY STUD Control Limits %R	Y Control Limits %RPD	Flag		
Analyst: KEB Lab Batch ID: 892030 Units: ^{mg/kg} TPH By SW80 Analytes C6-C12 GRO	Sample: 624446-1-B 15 Mod	BKS Blank Sample Result [A] <15.0	ate Prepar Batcl BLAN Spike Added [B] 1000	ed: 07/11/201 n #: 1 K /BLANK S Blank Spike Result [C] 706	2 BIANK Spike %R [D] 71	Spike Added [E]	Blank Spike Duplicate Result [F] 709	Date A	nalyzed: 0 Matrix: S RECOVE RPD % 0	07/12/2012 Solid CRY STUD Control Limits %R 70-135	Control Limits %RPD 35	Flag		

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G

Work Order #: 445445												
Lab Batch #: 892136			Pro	oject ID:	042079-20	12-02						
Date Analyzed: 07/13/2012 Da	ate Prepared: 07/13	3/2012	Α	nalyst: T	TE							
QC- Sample ID: 445441-001 S	Batch #: 1		I	Matrix: S	olid							
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY											
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag						
Analytes	[A]	[B]										
Chloride	15.8	100	117	101	80-120							
Lab Batch #: 892136												
Date Analyzed: 07/13/2012 Da	ate Prepared: 07/13	3/2012	А	nalyst: T	TE							
QC- Sample ID: 445445-011 S	Batch #: 1		I	Matrix: S	olid							
Reporting Units: mg/kg	MATR	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY						
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag						
Chloride	111	114	204	82	80-120							

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: State G



Work Order #: 445445 Project ID: 042079-2012-02 Lab Batch ID: 892030 QC- Sample ID: 445445-002 S Batch #: Matrix: Solid 1 **Date Prepared:** 07/11/2012 Analyst: KEB **Date Analyzed:** 07/12/2012 Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Sample Spiked Duplicate Spiked Control Control TPH By SW8015 Mod Sample Spike Result Sample Spiked Sample RPD Limits Spike Dup. Limits Flag Result Added [C] %R Added Result [F] %R %R %RPD % Analytes [A] [B] [D] [E] [G] C6-C12 GRO <16.3 1090 779 71 1090 784 72 1 70-135 35 C12-C28 DRO 925 1090 1640 1630 65 35 Х 66 1090 1 70-135

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Page 14 of 18



Sample Duplicate Recovery



Project Name: State G

Work Order #: 445445

Lab Batch #: 892038 Date Analyzed: 07/11/2012 16:30 QC- Sample ID: 445445-001 D	Date Prepar Batch	ed:07/11/2012	2 Anal Mat	Project I yst:WRU rix: Solid	D: 042079-2	2012-02
Reporting Units: %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		11.9	10.8	10	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & AssociatesAcceptable Temperature Range: 0 - 6 degCDate/ Time Received: 07/11/2012 03:05:00 PMAir and Metal samples Acceptable Range: AmbientWork Order #: 445445Temperature Measuring device used :

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles/ container?	Yes	
#6 *Custody Seals Signed and dated for Containers/coolers	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 07/11/2012

Checklist reviewed by:

Date: 07/11/2012

Analytical Report 445661

for

Conestoga Rovers & Associates

Project Manager: Desiree Crenshaw

State G

042079

20-JUL-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-JUL-12



Project Manager: **Desiree Crenshaw Conestoga Rovers & Associates** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No: 445661 State G Project Address: New Mexico

Desiree Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 445661. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 445661 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully

Nicholas Straccione Project Manager

> Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 445661



Conestoga Rovers & Associates, Midland, TX

State G

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Site A SW	S	07-13-12 13:00	0 - 2.5	445661-001
Site B SW Wall	S	07-13-12 13:05	0 - 2.5	445661-002
Site B NE Wall	S	07-13-12 13:10	0 - 2.5	445661-003



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates Project Name: State G



Project ID:042079Work Order Number:445661

Report Date: 20-JUL-12 Date Received: 07/13/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





445661

Conestoga Rovers & Associates, Midland, TX

State G									
Sample Id: Site A SW]	Matrix: Soil		% Moisture: 5.9	95				
Lab Sample Id: 445661-001Date Collected: Jul-13-12 13:00Basis: Dry Weight									
Sample Depth: 0 - 2.5 Date Received: Jul-13-12 17:32									
Analytical Method:Inorganic Anions by EPA 300/300.1Prep Method: E300P									
Seq Number: 892429 Date Prep: Jul-17-12 11:07									
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil			
Chloride	16887-00-6	2820	mg/kg	07/17/12 11:07		10			
Analytical Method: TPH By	SW8015 Mod			Prep Metho	d: TX1005	Р			
Seq Number: 892326				Date Prep	: Jul-16-1	2 08:30			
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil			
TPH DRO	PHCG1028	548	mg/kg	07/16/12 12:42		1			







State	G
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Sample Id: Site A SW Lab Sample Id: 445661-001 Sample Depth: 0 - 2.5	M Date Coll Date Reco	Matrix: Soil lected: Jul-13-12 eived: Jul-13-12	13:00 17:32	% Moisture: Basis: W	et Weight	
Analytical Method: Percent Mois Seq Number: 892320	sture					
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.95	%	07/16/12 12:00		1





445661

Conestoga Rovers & Associates, Midland, TX

State G								
Sample Id: Site B SW Wall	% Moisture: 6.	14						
Lab Sample Id: 445661-002	Date Co	Basis: D	ry Weight					
Sample Depth: 0 - 2.5	Date Rec							
Analytical Method:Inorganic Anions by EPA 300/300.1Prep Method: E300P								
Seq Number: 892429		Date Prep: Jul-17-12 11:39						
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	430	mg/kg	07/17/12 11:39		10		
Analytical Method: TPH By S	W8015 Mod			Prep Metho	d: TX1005	δP		
Seq Number: 892326				Date Prep): Jul-16-1	2 08:30		
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil		
TPH _GRO	PHC612	19.5	mg/kg	07/16/12 13:14		1		
TPH DRO	PHCG1028	1060	mg/kg	07/16/12 13:14		1		







State U	S	tate	G
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Sample Id: Site B SW Wall Lab Sample Id: 445661-002 Sample Depth: 0 - 2.5	N Date Col Date Rec	Matrix: Soil lected: Jul-13-12 eeived: Jul-13-12	2 13:05 2 17:32	% Moisture: Basis: W	et Weight	
Analytical Method: Percent Moi Seq Number: 892320	sture					
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	6.14	%	07/16/12 12:00		1







State G									
Sample Id: Site B NE Wall]	Matrix: Soil		% Moisture: 6.2	22				
Lab Sample Id: 445661-003Date Collected: Jul-13-12 13:10Basis: Dry Weight									
Sample Depth: 0 - 2.5 Date Received: Jul-13-12 17:32									
Analytical Method: Inorganic Anions by EPA 300/300.1Prep Method: E300P									
Seq Number: 892429 Date Prep: Jul-17-12 11:55									
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil			
Chloride	16887-00-6	40.0	mg/kg	07/17/12 11:55		1			
Analytical Method: TPH By SV	Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P								
Seq Number: 892326				Date Prep	: Jul-16-12	2 08:30			
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil			
TPH DRO	PHCG1028	1020	mg/kg	07/16/12 13:47		1			







State U	S	tate	G
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Sample Id: Site B NE Wall Lab Sample Id: 445661-003 Sample Depth: 0 - 2.5	l Date Col Date Rec	Matrix: Soil llected: Jul-13-12 eeived: Jul-13-12	13:10 17:32	% Moisture: Basis: W	et Weight	
Analytical Method: Percent Mois Seq Number: 892320	sture					
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	6.22	%	07/16/12 12:00		1



Project Id: 042079

Project Location: New Mexico

Contact: Desiree Crenshaw

Certificate of Analysis Summary 445661

Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Date Received in Lab: Fri Jul-13-12 05:32 pm

Report Date: 20-JUL-12

Project Manager: Nicholas Straccione

	Lab Id:	445661-0	01	445661-0	02	445661-00	03		
Analysis Paguastad	Field Id:	Site A SV	N	Site B SW V	Wall	Site B NE V	Wall		
Analysis Kequesieu	Depth:	0-2.5	0-2.5			0-2.5			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jul-13-12 1	3:00	Jul-13-12 1	3:05	Jul-13-12 13	3:10		
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-17-12 1	1:07	Jul-17-12 1	1:39	Jul-17-12 1	1:55		
SUB: TX104704215	Analyzed:	Jul-17-12 1	Jul-17-12 11:07		1:39	Jul-17-12 1	1:55		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		2820	10.6	430	10.7	40.0	1.07		
Percent Moisture	Extracted:								
	Analyzed:	Jul-16-12 1	2:00	Jul-16-12 1	2:00	Jul-16-12 12	2:00		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		5.95	1.00	6.14	1.00	6.22	1.00		
TPH By SW8015 Mod	Extracted:	Jul-16-12 0	8:30	Jul-16-12 0	8:30	Jul-16-12 08	8:30		
	Analyzed:	Jul-16-12 1	2:42	Jul-16-12 1	3:14	Jul-16-12 13	3:47		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
TPH _GRO		ND	15.9	19.5	15.9	ND	16.0		
TPH_DRO		548	15.9	1060	15.9	1020	16.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Ctr. Nul

Nicholas Straccione Project Manager

Page 11 of 20



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SDL Sample	e Detection Limit LOD Limit of Detection
---------------------------------------	--

- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Final 1.000



Project Name: State G

Work Orders : 445661	,		Project II): 042079		
Lab Batch #: 892326	Sample: 445661-001 / SMP	P Batch: 1 Matrix: Soil				
Units: mg/kg	Date Analyzed: 07/16/12 12:42	SU	STUDY			
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		87.6	99.9	88	70-135	
o-Terphenyl		46.4	50.0	93	70-135	
Lab Batch #: 892326	Sample: 445661-002 / SMP	Batcl	h: ¹ Matrix:	Soil		
Units: mg/kg	Date Analyzed: 07/16/12 13:14	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111111 y ccs	88.8	99.6	89	70-135	
o-Terphenyl		48.3	49.8	97	70-135	
Lab Batch #: 892326	Sample: 445661-003 / SMP	Batc	h: 1 Matrix:	Soil	I	I
Units: mg/kg	Date Analyzed: 07/16/12 13:47	SU	RROGATE RE	ECOVERY	STUDY	
TPH]	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		88.5	99.8	89	70-135	
o-Terphenyl		47.2	49.9	95	70-135	
Lab Batch #: 892326	Sample: 624650-1-BLK / B	LK Batc	h: 1 Matrix:	Solid	I	
Units: mg/kg	Date Analyzed: 07/16/12 12:09	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			נטן		
1-Chlorooctane		89.4	100	89	70-135	
o-Terphenyl		47.5	50.0	95	70-135	
Lab Batch #: 892326	Sample: 624650-1-BKS / B	KS Batel	h: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 07/17/12 00:28	SU.	RROGATE RE	ECOVERY ;	STUDY	1
TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		114	100	114	70-135	
o-Terphenyl		57.3	50.0	115	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

Work Orders : 445661	,		Project II	D: 042079			
Lab Batch #: 892326	Sample: 624650-1-BSD / B	SD Bate	h: ¹ Matrix:	Solid			
Units: mg/kg	Date Analyzed: 07/17/12 00:58	SURROGATE RECOVERY STUDY					
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		103	100	103	70-135		
o-Terphenyl		55.9	50.0	112	70-135		
Lab Batch #: 892326	Sample: 445607-003 S / M	S Bate	h: ¹ Matrix	Solid			
Units: mg/kg	Date Analyzed: 07/16/12 23:28	SURROGATE RECOVERY STUDY					
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	Analytes	113	100	113	70-135		
o-Terphenyl		56.5	50.0	113	70-135		
Lab Batch #: 892326	Sample: 445607-003 SD / N	MSD Bate	h: ¹ Matrix:	Solid			
Units: mg/kg	Date Analyzed: 07/16/12 23:58	SURROGATE RECOVERY STUDY					
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		104	100	104	70-135		
o-Terphenyl		51.1	50.0	102	70-135		

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution





Project Name: State G

Work Order #: 445661	Project ID: 042079										
Analyst: TTE	Date Prepared: 07/17/2012					Date Analyzed: 07/17/2012					
Lab Batch ID: 892429 Sample: 624711-	-BKS	BKS Batch #: 1 Matrix: Solid									
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<1.00	100	104	104	100	105	105	1	80-120	20	
Analyst: KEB	Da	ate Prepar	ed: 07/16/201	2			Date A	nalyzed: (07/17/2012		
Analyst: KEB Lab Batch ID: 892326 Sample: 624650-	Da I-BKS	ate Prepar Batcl	ed: 07/16/201 n#: 1	2			Date A	nalyzed: (Matrix: S	07/17/2012 Solid		
Analyst: KEB Lab Batch ID: 892326 Sample: 624650- Units: ^{mg/kg}	D: I-BKS	ate Prepar Batcl BLAN	ed: 07/16/201 n#: 1 K /BLANK S	2 SPIKE / F	BLANK S	PIKE DUPI	Date A	nalyzed: (Matrix: S RECOVH	07/17/2012 Solid E RY STUD	Y	
Analyst: KEB Lab Batch ID: 892326 Sample: 624650- Units: mg/kg TPH By SW8015 Mod	D: BKS Blank Sample Result [A]	ate Prepar Batcl BLAN Spike Added	ed: 07/16/201 n #: 1 K /BLANK S Blank Spike Result [C]	2 SPIKE / F Blank Spike %R [D]	BLANK S Spike Added	Blank Blank Spike Duplicate Result [F]	Date An LICATE 1 Blk. Spk Dup. %R [G]	nalyzed: (Matrix: S RECOVE RPD %	07/17/2012 Solid ERY STUD Control Limits %R	Y Control Limits %RPD	Flag
Analyst: KEB Lab Batch ID: 892326 Sample: 624650- Units: mg/kg TPH By SW8015 Mod Analytes	D: I-BKS Blank Sample Result [A]	ate Prepar Batcl BLAN Spike Added [B]	ed: 07/16/201 n #: 1 K /BLANK S Blank Spike Result [C]	2 SPIKE / E Blank Spike %R [D]	BLANK S Spike Added [E]	Blank Blank Spike Duplicate Result [F]	Date An LICATE	nalyzed: (Matrix: S RECOVE RPD %	07/17/2012 Solid ERY STUD Control Limits %R	Y Control Limits %RPD	Flag
Analyst: KEB Lab Batch ID: 892326 Sample: 624650- Units: mg/kg TPH By SW8015 Mod Analytes TPH _GRO	-BKS Blank Sample Result [A] <15.0	ate Prepar Batcl BLAN Spike Added [B] 1000	ed: 07/16/201 n #: 1 K /BLANK \$ Blank Spike Result [C] 776	2 SPIKE / F Blank Spike %R [D] 78	Spike Added [E]	Blank Spike Duplicate Result [F] 782	Date An LICATE D Blk. Spk Dup. %R [G] 78	nalyzed: (Matrix: S RECOVE RPD % 1	07/17/2012 Solid Control Limits %R 70-135	Y Control Limits %RPD 35	Flag

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G

Work Order #: 445661						
Lab Batch #: 892429			Pro	oject ID:	042079	
Date Analyzed: 07/17/2012 Date	e Prepared: 07/17/2012 Analyst: TTE					
QC- Sample ID: 445661-001 S	Batch #: 1 Matrix: Soil					
Reporting Units: mg/kg	MATR	RIX / MA'	FRIX SPIKE	RECOV	ERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	2820	1060	4000	111	80-120	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: State G



Work Order #: 445661 Project ID: 042079 Lab Batch ID: 892326 QC- Sample ID: 445607-003 S Matrix: Solid Batch #: 1 **Date Prepared:** 07/16/2012 Analyst: KEB **Date Analyzed:** 07/16/2012 **Reporting Units:** mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Sample Spiked Duplicate Spiked Control Control TPH By SW8015 Mod Sample Spike Result Sample Spiked Sample RPD Limits Spike Dup. Limits Flag Result Added [C] %R Added Result [F] %R %R %RPD % Analytes [A] [B] [D] [E] [G] TPH_GRO <16.5 1100 772 70 1100 781 71 1 70-135 35 TPH_DRO 1100 939 85 942 86 0 70-135 35 <16.5 1100

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $RPD = 200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: State G

Work Order #: 445661

Lab Batch #: 892320 Date Analyzed: 07/16/2012 12:00 QC- Sample ID: 445661-001 D	red:07/16/2012	2 Anal Mat	Project I l yst: WRU rix: Soil	D: 042079		
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		5.95	5.85	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit
Relinguished by: Date	Relinquished by: Date	Relinquished by: Date	Special Instructions:				The state and	108 < 4, B are 1, 01.	My Site R Shi Dra	MI SITE A North Floor	_AB # (lab use only) 피 떠 다 다 다 다 다	ORDER # TTO UUI	(lab use only)	Sampler Signature:	Telephone No: 4326	City/State/Zip: Mudla	Company Address: 2135	Company Name CRA	Project Manager:	Xenco Laboratories The Environmental Lab of Texas
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XENCO Laboratories



Comments

Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & AssociatesAcceptable Temperature Range: 0 - 6 degCDate/ Time Received: 07/13/2012 05:32:00 PMAir and Metal samples Acceptable Range: AmbientWork Order #: 445661Temperature Measuring device used :

Sample Receipt Checklist	
#1 *Temperature of cooler(s)?	.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles/ container?	N/A
#6 *Custody Seals Signed and dated for Containers/coolers	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 07/16/2012

Checklist reviewed by:

Date: 07/16/2012

APPENDIX D









APPENDIX E

This Memora	andum	is an acknowledgment th Bill of Lading, nor a copy (issued and is not O	riginal and is	Shipper No.	675,800		
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the carrier's liability or declare provided by such provisions. S (3) Commodities requiring sp	ation by the ship a value, the carr See NMFC Item 17 ecial or additional	ier's liability shall be limited to the extent 2. care or attention in handling or stowing	in all respects in proper condition fo transport according to applicable international and national governmental regulations.	Subject to Section 7 of the consignee without recours following statement:	he conditions, if this shipment is to be se on the consignor, the consignor nake delivery of this shipment with	delivered to the shall sign the CHARC		CES
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Permanent post-office	address of sh	ipper. 🛞 TRATEDOUS	RECYCLED RAFEIT	STYLE CF365-4	© 2003 LABELMASTER® (800) 621-5808 www	labelmaster.	com

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Permanent post-off	ice address c	of shipper.	RECYCLED PAPER	STYLE CF365-4 © 2	2003 LABELMASTER® (800) 621-5808 www	.labelmaster	.com	

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a release or a value the carrier's liability provided by such pro (3) Commodities rec	te declaration by the or declare a value, the ovisions. See NMFC the puiring special or addi	 shipper and the shipper does not release e carrier's liability shall be limited to the extent em 172. lional care or attention in handling or stowing 	in all respects in proper condition for transport according to applicable international and national governmental regulations	Subject to Section 7 of the o consignee without recourse of following statement:	conditions, if this shipment is to be on the consignor, the consignor	delivered to the shall sign the CHARG	ES \$	
must be so marked item 360, Bills of La the Contract Terms	and packaged as to ending, Freight Bills and and Conditions for a li	nsure safe transportation. See Section 2(e) of d Statements of Charges and Section 1(a) of ist of such articles.	Signature	freight and all other lawful cha	rges. Signature of Consignor)	FREIGHT F except who right is cheory	REPAID Char n box at [ked [GES eck box if charges are to be collect
	RECEIVED, subje the property describ tents of packages u (the word carrier be possession of the pr nation, if on its routh	ct to the classifications and tariffs in effect on the d ed above in apparent good order, except as not inknown), marked, consigned, and destined as ing understood throughout this contract as mes openty under the contract agrees to carry to its u e, otherwise to deliver to another carrier on the n eh name of all ere and e call accents over all accents.	ate of the issue of this Bill of Lading, ted (contents and condition of con- indicated above which said carrier uning any person or corporation in issual place of delivery at said desti- joute to said destination. It is mutu- ne any aeries of raid, orace to depen-	tination and as to eac performed hereunder sification on the date of Shipper hereby governing classificati accepted for himself	h party at any time interested in a shall be subject to all the bill of lac shipmont, v certifies that he is familiar with ion and the said terms and condit and his assigns.	II or any said property, that e ing terms and conditions in t n all the lading terms and ions are hereby agreed to b	every service to he governing c conditions in y the shipper a	be las- the and
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Permanent pos	t-office address of	of shipper.	RECYCLED FARER	STYLE CF365-4 ©2	2003 LABELMASTER® (800) 621-5808 www.l	abelmaster.	com

This Memo	randu	is an acknowledgment th Bill of Lading, nor a copy of the second seco	at a Bill of Lading has been i or duplicate, covering the prop	ssued and is not Origi perty named herein, and	Shipper No	R. K. Y			
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age o	f)				(0010)	Date	-, 12	12.	
1		+	(Name of ca	amer)	(SCAC)	1		ų	
Collect on Delivery shipme	nts, the letters"	COD" must appear before consignee's name or as	s otherwise provided in Item 430, Sec. 1.	FROM: Shipper	LUITA				
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i the ter (th poi	RECEIVED, subj property descri ts of packages e word carrier b session of the p ion, if on its rou	bet to the classifications and tariffs in effect on the d bed above in apparent good order, except as not unknown), marked, consigned, and destined as eing understood throughout this contract as mer roperty under the contract) agrees to carry to its L e. otherwise to deliver to another carrier on the r	ate of the issue of this Bill of Lading, led (contents and condition of con- indicated above which said carrier aning any person or corporation in sual place of delivery at said desti- oute to said destination. It is mutu-	tination and as to ear performed hereunder sification on the date o Shipper hereb governing classificat accepted for himself	ch party at any time interested in shall be subject to all the bill of la f shipment. y certifies that he is familiar wi ion and the said terms and cond and his assigns.	all or any said property, the ding terms and conditions th all the lading terms a titions are hereby agreed t	at every service to n the governing o nd conditions in o by the shipper	be las- the and	
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Permanent post-off	ce address	of shipper.	RECYCLED PAPER PAPER	STYLE CF365-4 ©	2003 LABELMASTER®	(800) 621-5808 ww	w.labelmaster	.com	

This Memo	orandu	is an acknowledgment th Bill of Lading, nor a copy intended solely for filing	hat a Bill of Lading has been or duplicate, covering the prop or record.	issued and is not Origin perty named herein, and	nal I is	00 5		
					-+,	Carrier No	27.11	
Page	of		(Name of c	arrier)	(SCAC)	Date _	7-11/-	16
On Collect on Delivery ships	ments, the letters"	COD" must appear before consignee's name or a	s otherwise provided in Item 430, Sec.1.	FROM: PANEO Shipper PANEO	01.17 157A			
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ti te ((p n a	RECEIVED, subjet the property describ ents of packages u the word carrier be ossession of the pr lation, if on its route illy agreed as to ea	ct to the classifications and tariffs in effect on the de ed above in apparent good order, except as not inknown), marked, consigned, and destined as i ing understood throughout this contract as mea operty under the contract) agrees to carry to its u e, otherwise to deliver to another carrier on the ro ch carrier of all or any of, said property over all c	ate of the issue of this Bill of Lading, ed (contents and condition of con- indicated above which said carrier nining any person or corporation in sual place of delivery at said desti- pute to said destination. It is mutu- r any portion of said route to des-	tination and as to each performed hereunders sification on the date of s Shipper hereby governing classificatio accepted for himself a	party at any time interested in al shall be subject to all the bill of lad shipment. cortifies that he is familiar with n and the said terms and conditi nd his assigns.	I or any said property, that ng terms and conditions in all the lading terms an ons are hereby agreed to	every service to the governing c d conditions in by the shipper a) be las- the and
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Da	6-		7 -	DATE 7-	11-12			
Permanent post-of	ffice address c	of shipper.	RECYCLED FAFER	STYLE CF365-4 @ 20	003 LABELMASTER® (8	300) 621-5808 www	labelmaster.	com