

October 10, 2016

GROUNDWATER INVESTIGATION REPORT

**BUCKLEY ROAD VICINITY
San Luis Obispo, California**

Submitted to:

**Central Coast Regional Water Quality Control Board
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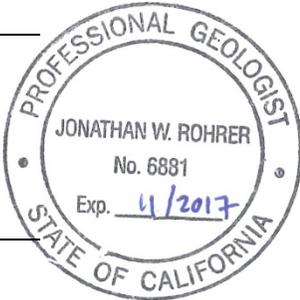


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1.0 INTRODUCTION

Roux Associates, Inc. (Roux Associates), on behalf of the County of San Luis Obispo (County), submits this Groundwater Investigation Report (Report) to the Central Coast Regional Quality Control Board (RWQCB), regarding investigations completed at the San Luis Obispo County Regional Airport (Airport), located at 901 Airport Drive in San Luis Obispo, California. For the purposes of this report, the Site consists of the secure operational areas of the Airport (runways, taxiways, and associated security zones) and County-owned land, outside of the Airport operational zones (Site; Figures 1 and 2).

As described by the RWQCB (RWQCB, 2015 and 2016A), sampling of groundwater wells in the area south and west of Buckley Road and Thread Lane, respectively (the Buckley Road/Thread Lane area), in the vicinity of the Airport, detected the presence of the chlorinated solvent trichloroethylene (TCE) since the 1990s. When groundwater supply wells were initially tested in the early 2000s, monitoring data indicated a maximum TCE concentration of 320 micrograms per liter ($\mu\text{g/L}$) in groundwater (RWQCB, 2015). Since that time, TCE concentrations have reportedly fluctuated, but there is an overall decreasing trend. The most recent groundwater monitoring data indicate a maximum TCE concentration of 61 $\mu\text{g/L}$ in groundwater wells in the Buckley Road/Thread Lane area.

Claims were made by various claimants that the Airport was the source of the TCE found in the groundwater wells in the Buckley Road/Thread Lane area, and the RWQCB requested that the County conduct sampling on and about the Airport to evaluate whether the Airport was a source of TCE in the groundwater wells. The scope of work proposed and described in this report was developed based upon a directive from the RWQCB dated February 26, 2016, and a meeting with the RWQCB held on March 8, 2016.

The February 26, 2016 RWQCB directive (RWQCB, 2016A) required the County to submit a detailed work plan to investigate whether TCE was present in soil gas and groundwater along Buckley Road and at other locations in the vicinity of the Site. A Groundwater Investigation Work Plan (Work Plan; Roux Associates, 2016A) was submitted to the RWQCB on April 15, 2016, and was subsequently revised to address the conditional approval issued by the RWQCB in

a letter dated May 13, 2016 (RWQCB, 2016B). Final approval of the Work Plan was issued in a letter from the RWQCB dated June 3, 2016 (RWQCB, 2016C).

During the investigation, additional changes to the approved Work Plan were made, with RWQCB concurrence, which were described in a letter to the RWQCB dated August 5, 2016 (Roux Associates, 2016B), and detailed in Section 4.0 of this Report. Throughout the course of the fieldwork, a representative from the RWQCB was present to oversee lithologic data collection and groundwater sampling. The RWQCB was consulted prior to any well construction and/or sampling. All field decisions were made with RWQCB concurrence.

A work plan regarding the soil gas portion of the RWQCB-requested investigation was submitted under separate cover to the RWQCB on April 15, 2016 (Roux Associates, 2016C), was approved on June 3, 2016 (RWQCB, 2016C), and was implemented in July and August 2016. Roux Associates collected more than 100 soil gas samples in suspected source areas based on historical records and anecdotal reports, as well as in the reported leach field/disposal area and associated storm water pathway toward Buckley Road (Roux Associates, 2016D). The soil gas investigation found no evidence of a historical release of TCE associated with Airport operations; additionally, no contaminated current or former drainage pathway was observed (Roux Associates, 2016D).

2.0 GENERAL BACKGROUND

2.1 Site Description

The Airport is located approximately 3 miles south-southeast of the approximate center of the City of San Luis Obispo, California (Figure 2). The Site is situated west of Highway 227, south of Tank Farm Road, and north and east of Buckley Road. It consists of approximately 340 acres (Coffman, 2005). In addition, there is a fire station located at 4671 Broad Street (Fire Station 21), and other businesses in this area include rental car companies and a restaurant. The Airport and these locations are collectively referred to herein as the “Site” (County, 2016D). The area of the Airport north of current Runway 25 and east of current Runway 29 is defined as the contemporary and current operational/support area of the Airport.

2.2 Physical Setting

The Site elevation ranges from approximately 135 feet along the western Site boundary, to approximately 215 feet at the southeastern Site boundary at the intersection of Buckley Road and Highway 227 (Figure 3). The Site and vicinity slope generally toward the northwest and west.

General plans for the Site describe the topography as nearly level, with surface drainage generally running from east to west. Historically, much of the southeastern portion of the Site and drainage onto the Site from the north or east drained first to a detention area or basin onsite, which was then conveyed via a pipeline under Runway 29 toward Buckley Road, and thereafter into a swale/depression and under a culvert to south of Buckley Road (County, 2016D).

2.3 Site History

A detailed discussion of Site history was provided in Roux Associates’ Groundwater Investigation Work Plan (Roux Associates, 2016A). Much of the Airport’s early history was documented by SAIC on behalf of the U.S. Army Corps of Engineers and the Department of Defense (SAIC, 1997 and USACE, 1999). Based on aerial photographs, prior to World War II, the Airport consisted of one primary and two secondary unimproved runways and one building that was located near the current day windsock. The U.S. Army Air Corps, the California National Guard, and the U.S. Navy each utilized the Airport at various periods between 1938 and 1946. Military activities appear to have been primarily located in the northern and eastern portion of the Site and involved providing a base for a small number of military airplanes for aerial observation and civilian training (SAIC, 1997 and USACE, 1999).

In 1946, the first commercial airline operations (Southwest Airways) reportedly began at the Airport (SAIC, 1997 and County, 2014). The Southwest Airways operations stopped in 1955 (County, 2014). Reportedly, no commercial airline operations were based at the Airport in the early 1960s (SAIC, 1997). In the late 1960s, commercial airline operations resumed at the Airport (County, 2014). Swift Aire was reportedly based at the Airport between 1969 and 1981.

In all of the information reviewed by SAIC on behalf of the Department of Defense, it appears that the only documented, or even suspected, underground storage of fluids at the Airport included petroleum hydrocarbons to sell fuel to private planes, with the exception of one or two waste oil, or underground slop storage tanks (SAIC, 1997). No indications of chlorinated solvent (or TCE) use, handling or disposal or explicit mention of any hazardous materials disposal areas during, or after military use at the Airport were noted by SAIC.

After World War II, the Airport expanded in several varying phases; some improvements were minor and incremental, and others included major runway/operational area re-alignments and expansions. A series of improvements and acquisitions have occurred dating back to the 1980s, including southeast of the current terminal area involving the Airport/Cal-Fire Fire Station, as well as acquisition of three parcels near the east end of Runway 25 for creating a Federal Aviation Administration (FAA) Clear-Zone, which limits the height profile and types of operations to be conducted near the start or end of a runway (County, 2016E). After the acquisition of the three properties for the FAA Clear-Zone east of Runway 25, some operations on two of the three properties were continued for a period of time under lease by the County into the early 2000s; thereafter, T-Hangers that became Lease Site "N" (November) were constructed, and improvements were made to Lease Site "M" (Mike). The two primary property entities, and thereafter leases to the County, in the FAA Clear-Zone east of Runway 25 prior to the mid-2000s, were the Woods Humane Society and Cooper Aviation/West Coast Air Service (and other affiliated entities, or sub-entities).

The western portions of the former Woods Humane Society and Cooper Properties are currently within the extent of Lease Site Mike (County, 2008). Some limited environmental assessment was performed associated with the former Cooper Property, and sampling of liquid from the septic tank, soil from the leach field, and water from the well present at that time did not detect TCE (Cuesta Geotechnical, 2002).

DTSC's online Hazardous Waste Tracking System (HWTS) indicated that an entity named Golden State Propeller (propeller shop), which has operated at the former fire station at the Airport, manifested waste coded D040 between 2006 and 2009. Additionally, three DTSC-regulated waste transporters have historically been associated with 4902 Edna Road, which is just across Broad Street/Edna Road at the southeastern end of the Airport. This information was provided to the RWQCB in a letter from Roux Associates dated July 22, 2016 (Roux Associates, 2016D).

A review of the Airport's Material Safety Data Sheet (MSDS) records going back 30 years (provided in a letter from San Luis Obispo County, dated January 20, 2016 [County, 2016]), shows the use of two paint thinner products (Ace Paint Thinner and Klean Strip Paint Thinner) which use aliphatic hydrocarbons Stoddard Solvent as active ingredients, and two concrete degreaser products (SSS HD Concrete Degreaser, Oil-Eater Cleaner Degreaser), which use sodium hydroxide or terpene hydrocarbons (citrus derivatives) as primary active ingredients; none of these products contain TCE. The quantities of these chemicals on the Site were less than 5 gallons at any one time (County, 2016).

The County identified only two spills (both were fuel spills): one in 1988, and another in 1990 (County, 2016A). These spills occurred in an area of the Airport that drains to the north. While subsurface petroleum hydrocarbon (jet fuel) impacts were found, reportedly resulting from drainage off this portion of the Site, the reports do not indicate that TCE was found in the soils or groundwater (County, 2016A). The same location where military operations, if any, would have taken place is believed to have drained into this area of the Site. In 1995, a Phase II environmental assessment of the Filbin site, located immediately west of the Site, found no chlorinated solvents (or other impacts) in the groundwater (County, 2016A).

2.4 Regional Geologic Setting

The Site is located within the Coast Range Geomorphic Province of California. The province is characterized by northwest-trending mountains and valleys located between the Great Valley of California and the Pacific Ocean. The Site is situated in the San Luis Valley, which is a basin filled with Holocene-aged alluvium with fan deposits, and a maximum thickness of approximately 160 feet (Dibblee, 2006). The alluvium rests unconformably on bedrock of the Franciscan Formation. The valley is bounded on the northeast by the Santa Lucia Range, on the southwest by the San Luis Range, and on all other sides by contact with impermeable Miocene and Franciscan Group rocks and the Los Osos and Edna Faults (County, 2015).

The Site and vicinity are located in the northeastern portion of the Pismo Beach Quadrangle. The Site and businesses in the Buckley Road/Thread Lane area are situated on older alluvium consisting of clay, dissected gravel, and sand (Dibblee, 2006 and Wieggers, 2011) (Figure 3 and Figure 4, respectively). The alluvium is thickest (more than 160 feet thick) in the western portion (Figure 5; Cleath, 1987). Immediately to the east of the Site is described as consisting of Franciscan Rocks, pervasively sheared mélange, primarily dark claystone and sandstone, marine sedimentary and volcanic rocks from the Jurassic and Cretaceous periods. To the south is described as the Paso Robles Formation from the Pliocene to Pleistocene, consisting of older alluvial gravel, sand, and clay.

2.5 Near-Site Lithology/Geology

The subsurface geology in the vicinity of the Airport and in the Buckley Road/Thread Lane area generally consists of three unconformable formations. As described by Cleath (Cleath, 1987), these formations consist of Alluvium and Terrace Deposits, underlain by the Squire Sandstone member of the Pismo Formation, underlain by the Franciscan Formation. However, it should be noted that Dibblee (Dibblee, 2006) mapped the Squire Sandstone as its own formation overlying the Pismo formation. Further, Dibblee also included the Paso Robles Formation uncomfortably beneath the surficial sediments of the Alluvium Formation and uncomfortably above the Squire Sandstone. These units are described in general below, and the following represents a synthesis of both Dibblee (2006) and Wieggers (2011).

Alluvium Formation – The Quaternary Period Alluvium Formation consists primarily of surficial deposits of fluvial gravel, sand and clay and is mapped in the immediate vicinity of San Luis Obispo as “dissected gravel and sand” (i.e., cut by erosion, especially by streams). As mapped on the Dibblee geologic map and illustrated on the alluvium thickness isopach map presented by Cleath (Figure 5), the Alluvium Formation appears to be located within a narrow valley that is longitudinally centered near the center of the Site. The long axis of the valley strikes southeast/northwest and is nearly parallel to Airport Runway 11/29. Alluvium thicknesses and depth to bedrock increase from approximately 40 feet near the southeastern corner of the Airport to over 160 feet near San Luis Obispo Creek and US Route 101, located approximately 2.75 miles to the northwest. The width of the valley expands from less than 1 mile near the southeastern portion of the Airport to over 1.5 miles near San Luis Obispo Creek.

Paso Robles Formation – The Pleistocene to Pliocene Epoch of the Quaternary/Tertiary Periods Paso Robles Formation also consists of gravel, sand, and clay with siliceous shale pebbles and is also dissected as the younger sediments of the Alluvium Formation. The Paso Robles Formation is mapped immediately south of San Luis Obispo by Dibblee.

Squire Sandstone – The Pliocene Epoch Squire Sandstone is a marine deposited white to gray-white, fine to medium-grained sandstone consisting primarily of quartz and feldspar (i.e., arkosic) and is friable. The Squire Sandstone is mapped south of the Paso Robles Formation and south of Davenport Creek.

Pismo Formation – The early Pliocene, late Miocene Epoch Pismo Formation is generally a friable, light gray quartzose sandstone; however, in some areas it contains bituminous matter (i.e., asphalt or bitumen). Further, in some areas this formation also has been described as a gray to tan, vaguely bedded claystone to siltstone that includes some sandstone. Large areas of the Pismo Formation are mapped to the south of the Squire Sandstone.

Franciscan Formation – The Jurassic and Cretaceous Period Franciscan Formation has been described of a mélangé of dark claystone and greywacke (i.e., hard, poorly sorted angular grained sandstone). Note that others have also described this formation as “shale, clay, red and green rock, and gray sandstone” (Cleath, 1987). Further, it is has also been described to contain “blocks of graywackes, chert, greenstone and glaucophane schist” (Dibblee, 2006). As suggested by these descriptions, the highly chaotic and variable Franciscan Formation is the result of tectonic (i.e., subduction) accretion of marine sediments and volcanic deposits that were later altered and deformed by faults such as the San Andreas.

2.6 Hydrogeological Setting

The Site and vicinity lie within the northern/western portion of the San Luis Obispo Valley Groundwater Basin, which consists of Pleistocene to Holocene-age terrestrial deposits of gravel, sand, silt, and clay of fluvial origin (DWR, 2003). Primary groundwater producing formations include the Franciscan Formation, the Squire member of the Pismo Formation, and alluvium, with the alluvium being the primary groundwater-bearing material (Cleath, 1987). Saturated aquifers within the alluvium are typically less than 40 feet thick and are interspersed with clay layers

(Cleath, 1987). The Edna Fault is reportedly located east of the Site, but the fault does not appear to affect the movement or quality of groundwater (DWR, 2003). Groundwater in the basin is recharged through infiltration of precipitation (between approximately 19 to 23 inches per year), applied irrigation water, and streamflow (Cleath, 1987).

Water supply in the region is obtained primarily from groundwater (Cleath, 1987). Consequently, the region surrounding the Site has many groundwater wells, especially in the more developed areas and along Highway 227 (Cleath, 1987) and in the Buckley Road/Thread Lane area, including those sampled recently for TCE (RWQCB, 2015). Agricultural, municipal, and industrial extractions total approximately 5,800 acre feet per year (DWR, 2003). Trend analysis of groundwater levels suggest that groundwater levels are quickly responsive to increased pumping during droughts (Cleath, 1987).

The groundwater gradient in the San Luis Valley generally flows toward San Luis Obispo Creek from the east and north; in the southeast portion of the Site, however, information on groundwater flow is insufficient to draw definitive conclusions, but may be expected to flow toward the west and northwest, generally paralleling the topography as it flows into the San Luis Valley Groundwater basin between the Santa Lucia and the San Luis Ranges (Cleath, 1987). Cleath noted a possible depression in groundwater levels south of Buckley Road, possibly due to groundwater pumping practices (Cleath, 1987). The local groundwater flow direction may vary vertically and is also influenced by localized groundwater production for both residential and industrial use along Buckley Road. Well logs and screened intervals are not known for all wells in the region at this time.

At least six groundwater extraction wells do currently, or have existed in the Buckley Road industrial/commercial area as part of permitted Non-Transient/Non-Community Water Systems associated with industrial/commercial uses, including Strasbaugh, Noll, and Buttonwood Industrial Park (SDWIS, 2016). Where a Non-Transient/Non-Community Water system is defined as, “*A public water system that regularly supplies water to at least 25 of the same people at least six months per year. Some examples are schools, factories, office buildings, and hospitals which have their own water systems*” (USEPA, 2016). The magnitude and frequency of groundwater extraction associated with these non-residential uses and the subsequent local

influence of groundwater extractions on the general regional groundwater gradient and flow direction both laterally and vertically is not known.

In 2015, at the Former San Luis Obispo Tank Farm located immediately to the west of the Airport, depth to groundwater ranged between approximately 10 feet to 25 feet below ground surface (bgs). The direction of groundwater flow was calculated to generally flow toward the southwest under a hydraulic gradient of approximately 0.006 feet per foot (Padre, 2015).

The RWQCB has noted that drainage pathways on the Site, including in particular a storm drain pipe travelling under Runway 29 and flowing toward and south of Buckley Road, may have hypothetically transported discharges from the Site to the subsurface offsite. As discussed above, the groundwater flow direction, although primarily east to west, is also uncertain both: a) laterally and vertically; and, b) due to historical and current pumping activities (Cleath, 1987).

3.0 INVESTIGATION OBJECTIVES

Based on a review of aerial photographs and historical documents, potential source areas were identified as the northern and eastern portions of the Site where airport operations have primarily occurred since World War II. Given the supposed general groundwater flow direction from east to west, implementation of the Work Plan scope fulfilled three primary objectives:

- 1) Assess groundwater conditions near Buckley Road and identify if elevated concentrations of TCE are present on the Airport in the groundwater near Buckley Road;
- 2) Investigate whether TCE-impacted groundwater may be migrating along a hypothetical migration pathway through drainage conveyances from the north and east of the runways southwest toward the Buckley Road/Thread Lane area; and,
- 3) Characterize the full thickness of the alluvium and the upper portion of the weathered bedrock, as directed by the RWQCB in their June 3, 2016 letter (RWQCB, 2016C).

The Work Plan-described method of collecting lithologic information and groundwater data using Cone Penetration Testing (CPT) at all five attempted locations met refusal due to cemented/consolidated zones encountered at depths ranging between approximately 23 and 44 feet bgs. Roux Associates thereafter with RWQCB concurrence completed the proposed scope of work using a Rotosonic drilling methodology. See Figure 6 for CPT locations and Figure 7 Rotosonic drilling locations. The Rotosonic drilling locations needed to be moved further away from the runway due to FAA/safety considerations due to the height of the Rotosonic drill rig mast relative to the lower-profile CPT vehicle.

4.0 SCOPE OF WORK

All work was performed under the direction and oversight of a California-registered Professional Geologist. Work included the advancement of a total of five CPT borings, five Rotosonic borings at four locations, 12 groundwater samples, and collection of lithological data.

4.1 Groundwater Sampling Locations

As shown in Figure 7, the scope of work included the collection of groundwater samples at discrete depths from five borings south of Runway 29 and parallel to Buckley Road. The scope of work included the following:

1. Pre-field planning and Airport access;
2. Preliminary lithologic data collected from five locations (CPT-1 through CPT-5);
3. Final lithologic data collected from four locations (SB-01, SB-03, SB-04, and SB-05); and,
4. Groundwater data collected from five borings at four locations (SB-01/SB-01A, SB-03, SB-04, and SB-05).

4.2 Pre-Field Activities

Prior to intrusive work at the Site, Roux Associates completed appropriate Airport training and security clearances, made appropriate notifications for the intended sampling activities, filed appropriate permit applications, cleared boring locations, and prepared a Site-specific health and safety plan. These activities are detailed below.

4.2.1 Airport Security Clearance/Boring Locations

Groundwater sampling locations were first cleared with Airport staff. Primarily due to: 1) the height of the Rotosonic drill rig; 2) the time required for borehole advancement, groundwater sample collection and borehole abandonment; and, 3) FAA considerations relating to the active operations of the Airport, the boreholes were moved further to the southwest, away from the runway and toward Buckley Road, than originally planned (Figure 7). The RWQCB was notified of these changes (Roux Associates, 2016B). On July 13, 2016, Roux Associates personnel underwent Airport Operations Area (AOA) training and obtained the required clearances and badging to work inside the AOA. Work on the Site was consistent with all applicable FAA guidance and protocols (FAA, 2011).

4.2.2 Groundwater Sampling Permit Application Submittal

Monitoring Well Permits were secured from the San Luis Obispo County Environmental Health Department for each boring that was anticipated to enter groundwater. The permit applications were submitted by the contracted drilling companies, Cascade Drilling L.P. of Upland, California, and California Push Technologies of San Leandro, California, prior to the start of fieldwork. Approved Monitoring Well Permits are included as Appendix A.

4.2.3 Dig-Alert and Geophysical Investigation

Roux Associates pre-marked the proposed boring locations with survey flags and notified Underground Service Alert (USA) of Northern California at least 48 hours in advance of drilling to demarcate utilities coming to and through the Site. Additionally, Roux Associates contracted with Spectrum Geophysics of Chatsworth, California, a private geophysical services and utility locating firm, to evaluate the proposed boring locations and mitigate the risk of disrupting potentially buried utility lines. As part of the investigation, the geophysical services company used a variety of tools, including ground-penetrating radar (GPR), radio detection (RD-4000), Dynatel diagnostic testing equipment, EM-61 high sensitivity metal detection, and M-Scope metal detection equipment. No utilities were located near the intended sample locations. At each subsurface location to be advanced, the boring was hand cleared to a depth of at least 5 feet bgs.

4.2.4 Health and Safety Plan

Roux Associates prepared a Site-specific Health and Safety Plan (HASP) to identify significant risks and hazards that may have been encountered during implementation of the scope of work. Field workers acknowledged their familiarity with all safety procedures and indicated their intent to follow the HASP by signing the HASP after tailgate safety meetings, which took place at the beginning of each field day. All personnel working in the exclusion zone were OSHA trained, consistent with federal regulation 29 CFR 191.120.

4.3 Boring Advancement

Boring advancement consisted of three primary mobilizations of CPT sounding and Rotasonic drilling technology between July and September 2016. Drilling procedures are discussed in detail below.

4.3.1 Alterations to Scope

Given the geologic conditions observed in the field, changes were made to the original scope of work, which was presented to the RWQCB in a letter dated August 5, 2016 (Roux Associates, 2016B). As stated in the letter, the Work Plan-described method of collecting lithologic information and groundwater data using CPT at all five attempted locations met refusal due to cemented/consolidated zones encountered at depths ranging between approximately 23 and 44 feet bgs. These depths generally correlate to similar conditions observed in the lithologic pilot borehole (SB-01) advanced using Rotasonic drilling at the Buckley Road turnout.

As a result, Roux Associates oversaw the advancement of borings SB-01A, SB-03, SB-04, and SB-05 for lithologic description and groundwater sample collection using a Rotasonic methodology. As described above, the groundwater sampling locations within the AOA were moved closer to the AOA fence line. The final locations of both the CPT borings and the Rotasonic borings can be seen in Figures 6 and 7, respectively.

After the advancement of borings SB-01A, SB-03, SB-04, and SB-05, Roux Associates met with the RWQCB and presented the data from groundwater and soil gas samples collected on the Airport. Based on the data, the RWQCB concurred that groundwater sample collection near Buckley Road was complete, and boring SB-02 was not advanced.

4.3.2 CPT Sounding

On July 27, 2016, California Push Technologies advanced five borings using CPT sounding to collect lithologic data (Figure 6). The CPT drilling rig advances 1 3/4-inch outer diameter and 3/4-inch inner diameter steel rods. The leading steel rod has a cone tip which measures the tip resistance, penetration pore pressure and sleeve friction in 5-centimeter intervals. The CPT cone tip is sensitive and unable to advance in certain lithologic conditions, including soils containing gravel or cemented clays.

CPT advancement refusal was encountered at depths of 23.13 (CPT-01), 22.97 (CPT-02), 27.72 (CPT-03), 40.52 (CPT-04), and 44.62 (CPT-05) feet bgs. No saturated conditions were reported. These depths generally correlate to similar cemented/consolidated zones observed in boring SB-01. The CPT Sounding report is included in Appendix B.

4.3.3 Sonic Drilling

As a contingency method for CPT, Rotosonic drilling was instead used to complete the scope of work. Rotosonic drilling uses vibration, rotation, and downforce of the sonic drill casing to advance the borehole. Rotosonic drilling technology uses both an inner core barrel and an outer sonic drill casing to penetrate the subsurface. The inner core barrel is advanced ahead of the sonic drill casing collecting the first section of the continuous sample. Next, the overriding outer sonic casing is advanced over the inner core barrel. Finally, the inner core barrel with the continuous sample inside is extracted while the outer sonic drill casing remains in the subsurface at depth. The sample is then brought to the surface and extruded into a bag or core box. The result is continuous core samples of unconsolidated sediment from the ground surface to the desired depth. Because of the use of both an inner core barrel and an outer sonic drill casing, each encountered groundwater-bearing zone was able to be isolated such that all groundwater samples at each location were collected from one borehole.

Under Roux Associates' direction, Cascade Drilling L.P. used a Rotosonic drilling rig to advance five borings at four locations, in two separate mobilizations on July 25, 2016 (SB-01), and between August 20, 2016 and September 1, 2016 (SB-01A, SB-03, SB-04, and SB-05). Groundwater samples were collected at each boring (Figure 7 and Figure 8). Section 4.4 presents a summary of groundwater sampling procedures and depths.

Boring SB-01 was advanced outside the AOA within the Buckley Road turnout to a total depth of 113 feet bgs. Bedrock was encountered at approximately 73 feet bgs. At a distance of approximately 8 feet to the south of boring SB-01 within the Buckley Road turnout, boring SB-01A was advanced to a total depth of 74 feet bgs; bedrock was encountered at approximately 71 feet bgs. Within the AOA, three borings (SB-03, SB-04, and SB-05) were advanced parallel to Buckley Road, south of Runway 29 at a distance of approximately 200 feet apart. Boring SB-03 was advanced to a total depth of 106 feet bgs; bedrock was encountered at approximately 71.5 feet bgs. Boring SB-04 was advanced to a total depth of 91 feet bgs; bedrock was encountered at approximately 70 feet bgs. Boring SB-05 was advanced to a total depth of 76 feet bgs; bedrock was encountered at approximately 71 feet bgs.

4.4 Groundwater Sampling Procedures

Groundwater samples were collected at varying depths in each of the five Rotosonic borings. Roux Associates field personnel collected soil cores and kept in constant communication with the drilling rig operator to identify each groundwater-bearing zone upon encountering it. Once groundwater was reached, Roux Associates personnel and a representative from the RWQCB discussed and agreed upon temporary well construction and placement. In most cases, the RWQCB was present during collection of groundwater samples.

A summary of temporary well placement and construction is presented in Table 1. At boring SB-01, a temporary well was not installed; instead, two groundwater grab samples were collected at 50 feet bgs, using a bailer through the drill string, after the boring had been advanced to a depth of approximately 68 feet bgs.

At locations SB-01A, SB-03, SB-04, and SB-05, temporary wells were constructed using 2-inch diameter 0.010-inch slotted PVC piping, or using 2-inch diameter prepacked steel screen, surrounded by #20/40 sand placed at least one foot above and below the screen interval. The prepacked screen was used based on observed geologic conditions to prevent sediment from entering into the well and was used primarily at depths where infiltration of sediment was expected to occur. The screened portion of the temporary wells was then sealed above the sand with between approximately one to two feet of hydrated bentonite.

At boring SB-01A, two temporary wells were installed and screened at depths between 59 and 64 feet bgs and between 67 and 72 feet bgs. Groundwater samples were collected at 61.5 feet bgs and at 69.5 feet bgs, respectively. At boring SB-03, three temporary wells were installed and screened at depths between 36 and 46 feet bgs, between 54 and 69 feet bgs, and between 90 and 105 feet bgs. Groundwater samples were collected at 41, 65, and 97.5 feet bgs, respectively. At boring SB-04, three temporary wells were installed and screened at depths between 21 and 31 feet bgs, between 33 and 37 feet bgs, and between 56 and 69 feet bgs. Groundwater samples were collected at 30, 35, and 64 feet bgs, respectively. At boring SB-05, two temporary wells were installed and screened at depths between 30.5 and 40.5 feet bgs and between 60 and 75 feet bgs. Groundwater samples were collected at 35.5 feet bgs and at 68.5 feet bgs, respectively.

In select wells, the well screens were surged with a stainless steel surge block after construction at the request of the RWQCB. Water level depths were monitored with a Solinst water level meter, and when possible, groundwater was allowed to stabilize overnight before sampling. Prior to collection of groundwater samples, three well volumes were purged from each of the temporary wells containing sufficient water. Three well volumes were successfully purged for samples SB-03-41, SB-03-65, SB-04-64, and SB-05-35.5. Samples SB-01A-61.5, SB-01A-69.5, SB-03-97.5, SB-04-30, SB-04-35, and SB-05-68.5 were unable to produce three full purge volumes due to slow recharge rates. For these samples, the temporary well was purged until dry. In all cases, wells were allowed to recharge for at least two hours or until the well had recovered to 80% of its original-recorded volume prior to sampling. During purging, depth to water and water quality parameters, including pH, conductivity, temperature, and turbidity, were recorded. Sampling Logs with recorded parameters are included in Appendix C

Purging activities were accomplished using a disposable bailer or a Monster Monsoon Pump using new disposable tubing, as indicated in Table 1. Once sampling conditions had been met, as described above, groundwater samples were collected either via a new disposable bailer or through the pump discharge line and were placed directly in laboratory-prepared glassware, labeled, stored in a chilled cooler, and submitted to the laboratory in accordance with standard chain-of-custody procedures. For samples collected via the pump, the flow rate was decreased prior to sampling to minimize potential volatilization during sample collection.

Groundwater samples were analyzed for VOCs and oxygenates via USEPA Method 8260B by Oilfield and Environmental Compliance Laboratories (OEC) of Santa Maria, California, a California state-certified laboratory. Select samples were analyzed on an expedited turnaround basis.

4.5 Sample Handling

All samples were properly labeled, preserved (where appropriate), and handled in accordance with approved protocols. All laboratory analyses were conducted by OEC, a California-certified laboratory approved for standard quality assurance and quality control procedures (QA/QC).

4.6 Field Data Quality Control Procedures

Several control checks for both field and laboratory data were performed as described in the sections below. These control checks document the quality of the data being collected, and assess whether reported concentrations of chemicals identified through results of analytical testing are of acceptable quality.

4.6.1 Field Record Keeping

Bound field logbooks were maintained by the field team members to provide a daily record of significant events, observations, and measurements during the field investigation. All entries were signed and dated. Field instruments used during this investigation, consisting of a photoionization detector (PID) and a Horiba water quality meter, were calibrated according to the manufacturer's specifications with sufficient frequency to ensure accuracy and reproducibility of results. At a minimum, monitoring equipment used in the field was calibrated daily against a known standard. If the results show that the concentration was within 5% of the known standard, the equipment was considered calibrated. The calibration results were recorded in the field logbooks.

4.6.2 Field Sampling Quality Control

As a check on field sampling, various quality control (QC) samples were collected. Definitions for field QC samples are presented below.

Field Duplicates

A field duplicate is defined as a second sample collected independently at the same sampling location during the same sampling event that produced the primary sample. A field duplicate groundwater sample was collected at each of the five borings to evaluate the precision of the sampler and the analytical laboratory. Duplicate samples were prepared in the same manner as other samples and were be given the sample designation "D" to indicate that it is a duplicate sample (except for the duplicate sample for primary sample SB-01-50, which was given the sample designation of SB-01-500).

Five duplicate samples were collected during the groundwater investigation: SB-01-500, SB-01A-61.5-D, SB-03-41-D, SB-04-64-D, and SB-05-35.5-D. Field duplicate samples were analyzed for VOCs and oxygenates via USEPA Method 8260B.

Equipment Blanks

Equipment blanks consisted of ASTM Type II water (or equivalent) poured onto and over the pump following decontamination into laboratory-provided glassware. Equipment blanks were prepared each day that a sample was collected using the pump. Equipment blank samples were given the designation “EB” to distinguish them as equipment blanks and associate them with their primary field sample ID number.

Six equipment blank samples were collected during the groundwater investigation: SB-01A-61.5-EB, SB-03-41-EB, SB-03-65-EB, SB-03-97.5-EB, SB-04-64-EB, and SB-05-68.5-EB. Each equipment blank was analyzed for VOCs and oxygenates via USEPA Method 8260B.

Trip Blanks

Trip blanks are used to measure potential contamination of samples by VOCs during transport. The trip blank consists of a vial filled by the laboratory with ASTM Type II water, shipped to the field, and returned to the laboratory in a cooler that contains samples for VOC analysis. A trip blank was included in every cooler containing samples for VOC analysis; the trip blank sample was analyzed for VOCs and oxygenates via USEPA Method 8260B.

Eight trip blank samples were submitted for analysis during the groundwater investigation: #16 0810116-16, #15 081016-15, #17-081016, #13 081016-13, #14 081016-14, #11-081016-11, and #082318-22, which accompanied the transportation and shipment of samples that were sent to OEC on August 22, 2016, August 23, 2016, August 24, 2016, August 24, 2016, August 25, 2016, August 29, 2016, and August 30, 2016, respectively. Sample designations were provided by the laboratory.

4.7 Investigation Derived Waste

Decontamination rinsate was collected and contained in Department of Transportation (DOT)-approved 55-gallon drums. Non-archived drill cuttings were placed in a 16-yard roll-off bin on the Site. All drums and the roll-off bin were labeled, sealed, and stored temporarily on-Site, pending off-Site disposal in accordance with state and federal regulations.

4.8 Materials Storage

Soil cores used for lithologic logging at borings SB-01 and SB-04 remain in storage at the Site. They will be disposed of no sooner than one month following their collection.

4.9 Location Surveying

Rotosonic drilling locations SB-01A, SB-03, SB-04, and SB-05 were surveyed by Praxis Consolidated International, Inc. of San Luis Obispo, California, on September 23, 2016. The survey data is included as Appendix D. CPT locations were surveyed using a Trimble Geo7x handheld GPS unit with sub-foot accuracy.

5.0 FIELD OBSERVATIONS AND ANALYTICAL RESULTS

The following subsections summarize field observations concerning the alluvium and the upper portion of the weathered bedrock, as well as the groundwater analytical results.

5.1 Soil/Bedrock Observations

The soil encountered during drilling mostly consisted of clays and silts with lenses of sand and gravel (Figure 8). Bedrock in borings SB-01 and SB-03 was classified as being from the Franciscan Formation with traces of weathered serpentinite. Bedrock was encountered in borings SB-01 and SB-03 at 73 feet bgs and 71.5 feet bgs, respectively. Borings SB-04 and SB-05 exhibited dark grey claystone and siltstone bedrock. Bedrock was encountered in borings SB-04 and SB-05 at 70 feet bgs and 71 feet bgs, respectively. Boring logs for each Rotosonic boring are included in Appendix E.

5.2 Groundwater Analytical Results

Groundwater samples were analyzed for VOCs and oxygenates via USEPA Method 8260B. No detections of TCE were reported in any sample. Benzene, toluene, and total xylenes were reported in the groundwater grab samples collected from boring SB-01 at maximum concentrations of 1.2 µg/L, 1.5 µg/L, and 0.70 µg/L, respectively. These compounds were not reported in any other groundwater sample, including those collected from boring SB-01A through the temporary wells. Acetone, chloroform, 2-hexanone, and methylene chloride were detected in select groundwater and QC samples; however, as discussed below in Section 5.3, these compounds are common laboratory contaminants. Complete laboratory analytical reports are included in Appendix F.

5.3 Data Validation and Verification

The initial data interpretation, validation, and reporting was performed by the laboratory. Data was then reviewed by Roux Associates for quality assurance (QA) and QC purposes. All data validation was in accordance with the USEPA's Contract Laboratory Program National Functional Guidelines, dated January 2010, for both organic and inorganic data review.

First, a review of data qualifiers assigned by the laboratory was performed. Specifically, TCE was not detected in any laboratory QC samples, and the recovery in all spike samples and the relative percent difference (RPD) were within acceptable ranges.

All analytes reported in groundwater samples from borings SB-01A, SB-03, SB-04, and SB-05 are common laboratory contaminants. Specifically, there was an acetone detection of 5.2 µg/L in SB-01A-61.5-D (a duplicate sample of SB-01A-61.5). Acetone was not detected in the primary sample. Acetone was present at 6.44 µg/L in the laboratory's duplicate QC sample, which was analyzed on August 24 2016, the same day as SB-01A-61.5-D, which suggests that the acetone is a laboratory contaminant. All other reported results from duplicate groundwater samples were generally consistent with the results reported in the corresponding primary sample.

Additionally, acetone was detected at a concentration of 5.6 µg/L in SB-05-68.5-EB (an equipment blank sample). Acetone was not detected in the associated groundwater sample. Sample SB-05-68.5-EB was analyzed on September 6, 2016. Acetone was present at 70.6 µg/L in the laboratory's duplicate QC sample, which was also analyzed on September 6, 2016, and suggests that the acetone is a laboratory contaminant. No other detections of any constituents were reported in the remaining equipment blank samples.

No detections of any constituents were reported in the trip blank samples collected during the groundwater investigation.

Based on the above discussion, the quality assurance criteria for the project were met.

6.0 DISCUSSION OF RESULTS

6.1 Airport Historical Operations and Soil Gas Results

As indicated by Roux Associates' soil gas investigation at the Site, there are no detections of TCE in soil gas in the primary operational areas of the Airport east of the runways. The sole detection of TCE in soil gas is in very close proximity to the intersection of Thread Lane and Buckley Road. The soil gas investigation did detect some isolated concentrations of fuel-related compounds, likely related to typical airport operations activities. The soil gas results indicate that there have been no releases of TCE to shallow soil and/or the vadose zone on the Airport (Roux Associates, 2016D).

6.2 Lithology and Bedrock Geology

As noted in regional geologic studies and observed in this groundwater investigation, the general bedrock surface in the vicinity of the Airport is higher to the east, where it outcrops east of Broad Street/Edna Valley Road. The bedrock generally deepens, and the alluvium thickens, moving east of the Airport to the southwest toward an axial trough in the immediate vicinity of the impacted drinking water wells south of Buckley Road (Figure 5). The depth to bedrock encountered in the soil borings is generally consistent with the alluvium thickness interpretations by Cleath.

The unconsolidated material above bedrock is generally finer grained overall, and clear correlations between borings are not apparent for coarser-grained materials, except for a moderately consistent thin zone of saturated material immediately above the bedrock contact. Some extremely cemented and/or consolidated layers were encountered above bedrock during the investigation, but these layers also were not observed to be laterally consistent or contiguous.

6.3 Groundwater Investigation VOC Findings

Groundwater was not encountered shallower than immediately above the bedrock at boring SB-01. Nearer the current and former drainage pathway, however, groundwater was encountered at variable depths in borings SB-03 and SB-04 (located just west of the drainage pathway) and boring SB-05 (located to the immediate east of the drainage pathway). The bedrock itself does not appear to be significantly water bearing to the depths investigated.

No TCE was detected in any of the groundwater samples.

6.4 Alleged Release and Migration Pathways

Although assertions have been made regarding TCE use and disposal on the Airport and resultant hypothetical impacts to supply wells in the Buckley Road/Thread Lane area, the results of the soil gas and groundwater investigations do not indicate that any release of TCE has occurred on the Airport. If somehow an aqueous release of TCE might have occurred and migrated along the drainage pathway from the east side of the Airport to the west, it is expected that, given the fate and transport properties and volatility of TCE and the magnitude of groundwater impacts observed in the supply wells south of Buckley Road, some residual indications of this hypothetical release would have been found; however, no TCE or corresponding daughter products were detected in groundwater. Furthermore, no indications of any discharge of TCE to soil, soil gas or groundwater in the eastern portion of the Airport have been found.

The thin, laterally discontinuous saturated lithology observed during this groundwater investigation makes it unlikely that a potential TCE source on the east side of the Airport could have caused the groundwater impacts observed in the wells south of Buckley Road. However, placement of the groundwater borings along a transect separating the eastern portion of the Airport from the Buckley Road/Thread Lane area did not detect any TCE in groundwater along the transect, further eliminating this hypothetical pathway.

7.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Between the soil gas investigation and groundwater investigation, data have been collected under almost constant and direct RWQCB oversight that eliminate the Airport as being the source of groundwater impacts found in the groundwater supply wells south of Buckley Road. Therefore, further investigation relating to the TCE contamination in groundwater south of Buckley Road is not recommended for the San Luis Obispo County Regional Airport.

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Groundwater Investigation Report
San Luis Obispo, California

TABLES

1. Groundwater Sampling Summary

Table 1. Groundwater Sampling Summary

Location	Depth to Bedrock (feet bgs)	Groundwater Sample ID	Temporary Well Install Date	Groundwater Sample Date	Temporary Well Screen Interval (feet bgs)	Groundwater Sample Method	TCE (µg/L)
SB-01	73	SB-01-50	---	7/25/2016	---	Bailer	<0.5
		SB-01-50	---	7/26/2016	---	Bailer	<0.5
SB-01A	71	SB-01A-61.5	8/21/2016	8/22/2016	59-64	Pump	<0.5
		SB-01A-69.5	8/22/2016	8/22/2016	67-72	Pump	<0.5
SB-02	---	---	---	---	---	---	---
SB-03	71.5	SB-03-41	8/26/2016	8/27/2016	36-46	Pump	<0.5
		SB-03-65	8/27/2016	8/28/2016	54-69	Pump	<0.5
		SB-03-97.5	8/28/2016	8/29/2016	90-105	Pump	<0.5
SB-04	70	SB-04-30	8/23/2016	8/24/2016	21-31	Bailer	<0.5
		SB-04-35	8/24/2016	8/24/2016	33-37	Bailer	<0.5
		SB-04-64	8/25/2016	8/25/2016	59-69	Pump	<0.5
SB-05	71	SB-05-35.5	8/30/2016	8/30/2016	30.5-40.5	Bailer	<0.5
		SB-05-68.5	8/31/2016	9/1/2016	60-75	Pump	<0.5

Notes:

Boring SB-02 was not advanced, per concurrence from the Central Coast Regional Water Quality Control Board

TCE = Trichloroethene

µg/L = micrograms per liter

bgs = below ground surface

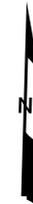
1. Site Vicinity Map
2. Site Map
3. Regional Geology: Dibblee, 2006
4. Regional Geology: Wiegers, 2011
5. San Luis Valley Alluvium Thickness Isopach: Cleath, 1987
6. CPT Sounding Locations
7. Groundwater Sample Locations
8. Geological Cross Section



Image Source: ESRI World Imagery 2016

Legend:

-  Site Boundary
-  Airport Operational Area



Title:

SITE VICINITY MAP

SAN LUIS OBISPO, CALIFORNIA

Prepared For:

COUNTY OF SAN LUIS OBISPO



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

Compiled by: PDF	Date: 10/5/2016
Prepared by: MN	Scale: 1:16,000
Project Mgr: KJ	Office: LA
File No: F(AP)	Project: 2744.001L002

FIGURE
1

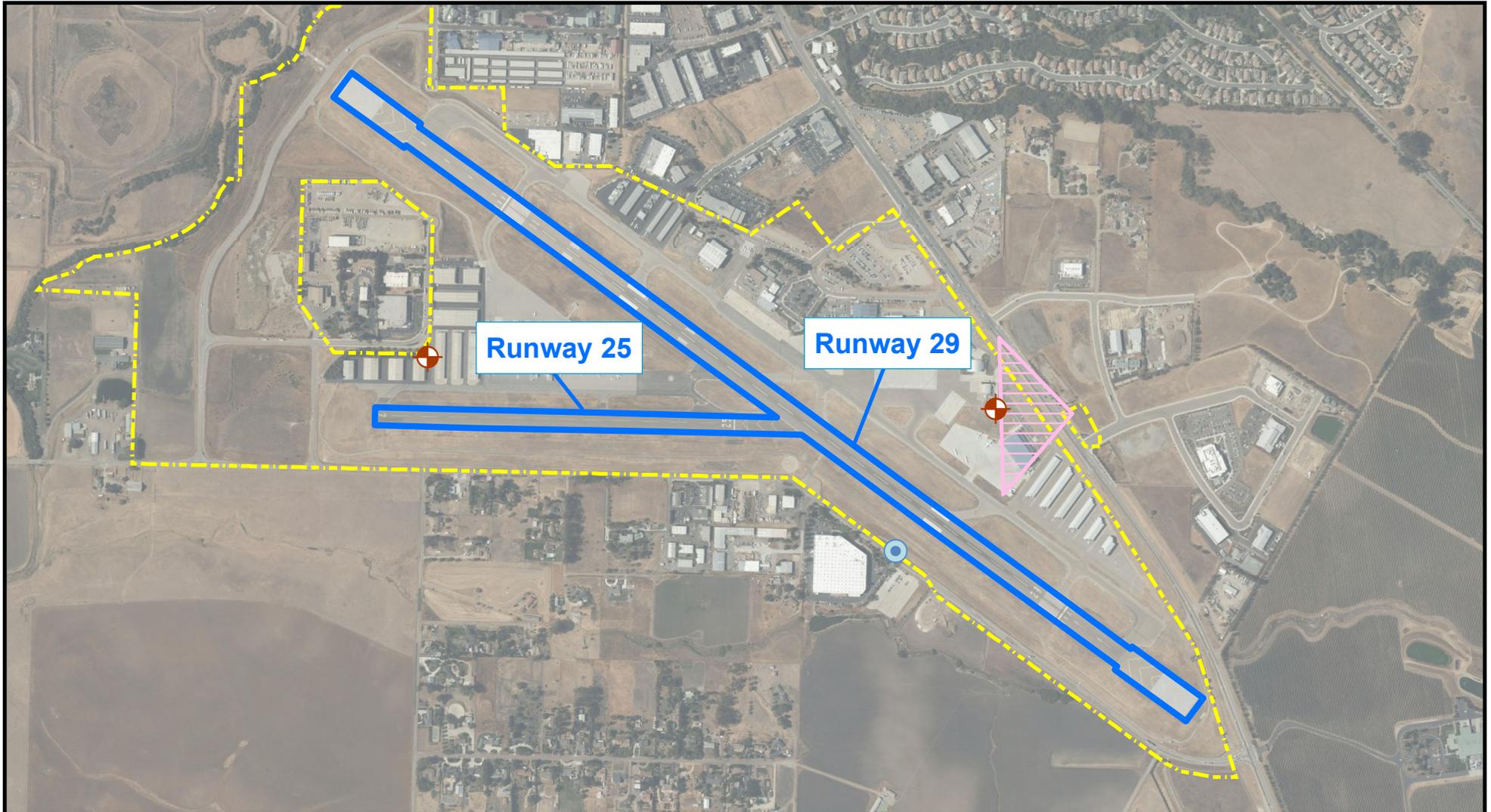
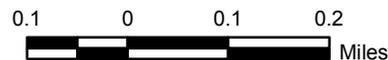


Image Source: ESRI World Imagery 2016

Legend:

-  Site Boundary
-  Present Extent of Runways
-  Approximate Location of Former Leach Field (Cleath, 1987)
-  Existing Groundwater Monitoring Well
-  Buckley Road Drainage Outlet



Title:

SITE MAP

SAN LUIS OBISPO, CALIFORNIA

Prepared For:

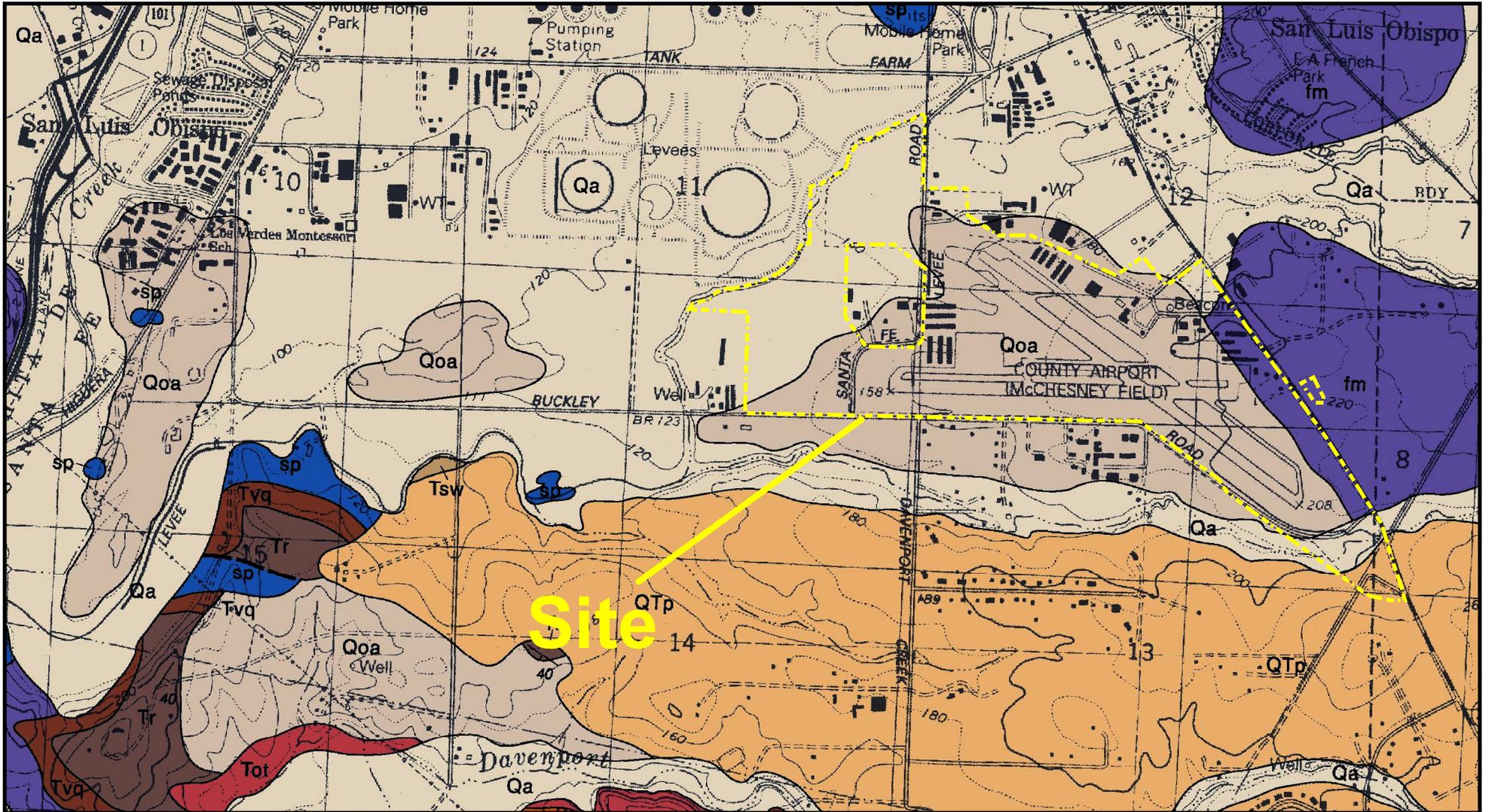
COUNTY OF SAN LUIS OBISPO



ROUX ASSOCIATES, INC.
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Compiled by: MN	Date: 10/5/2016
Prepared by: MN	Scale: 1:12,000
Project Mgr: KJ	Office: LA
File No: F(AL)	Project: 2744.001L002

FIGURE
2



Site

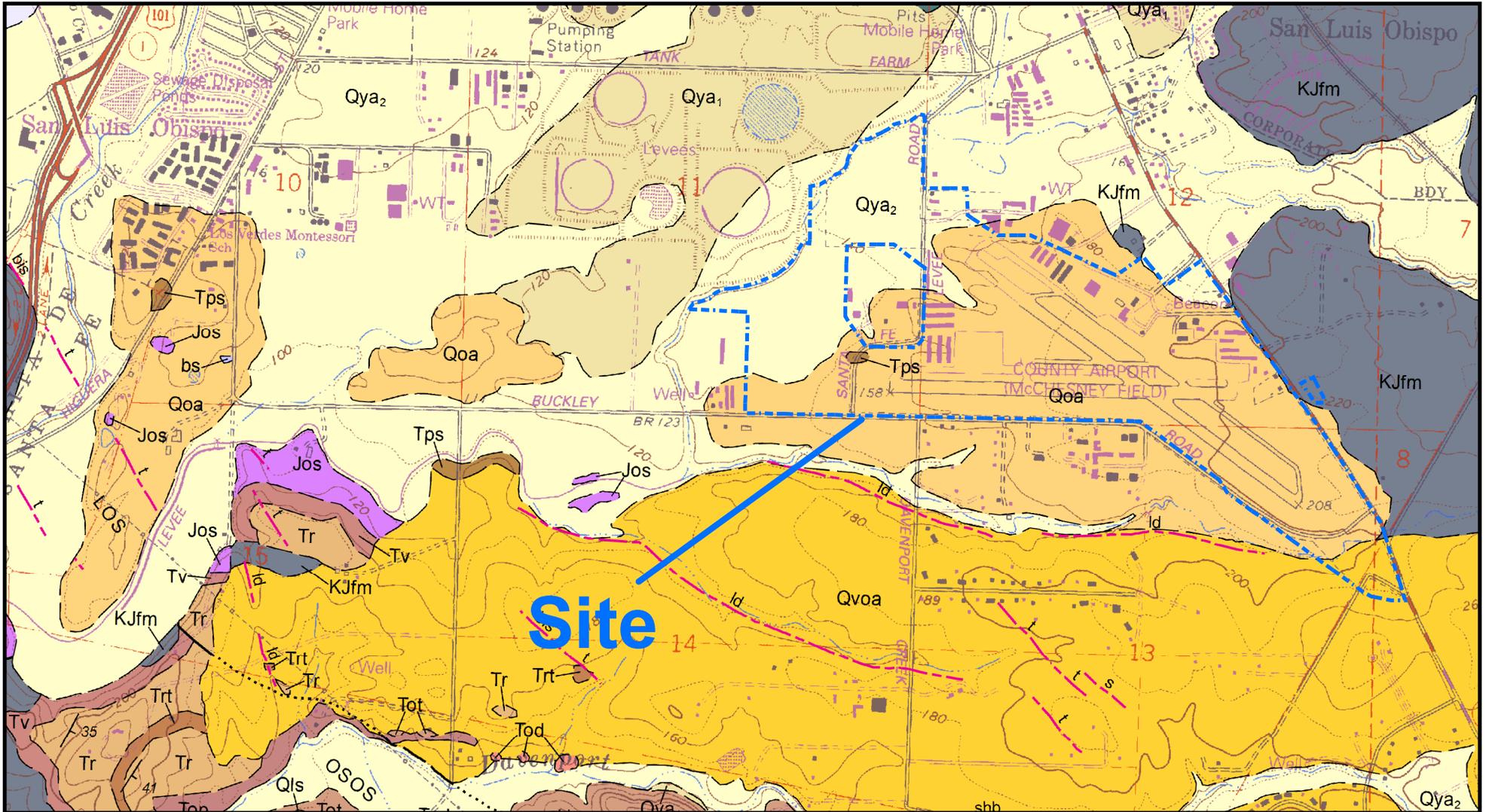
Image Source: Dibblee Pismo Beach Map (DF-212), 2006

Legend:

-  Site Boundary
-  Qa: Surficial Sediments
-  QTP: Paso Robles Formation
-  Qoa: Older Alluvium
-  fm: Franciscan Formation



<p>Title:</p> <h2 style="margin: 0;">REGIONAL GEOLOGY: DIBBLEE</h2> <p style="margin: 0;">SAN LUIS OBISPO, CALIFORNIA</p>			
<p>Prepared For:</p> <h3 style="margin: 0;">COUNTY OF SAN LUIS OBISPO</h3>			
 ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: PDF Prepared by: MN Project Mgr: KJ File No: F(AL)	Date: 10/5/2016 Scale: 1:20,000 Office: LA Project: 2744.0001L002	FIGURE <h1 style="margin: 0;">3</h1>



Site

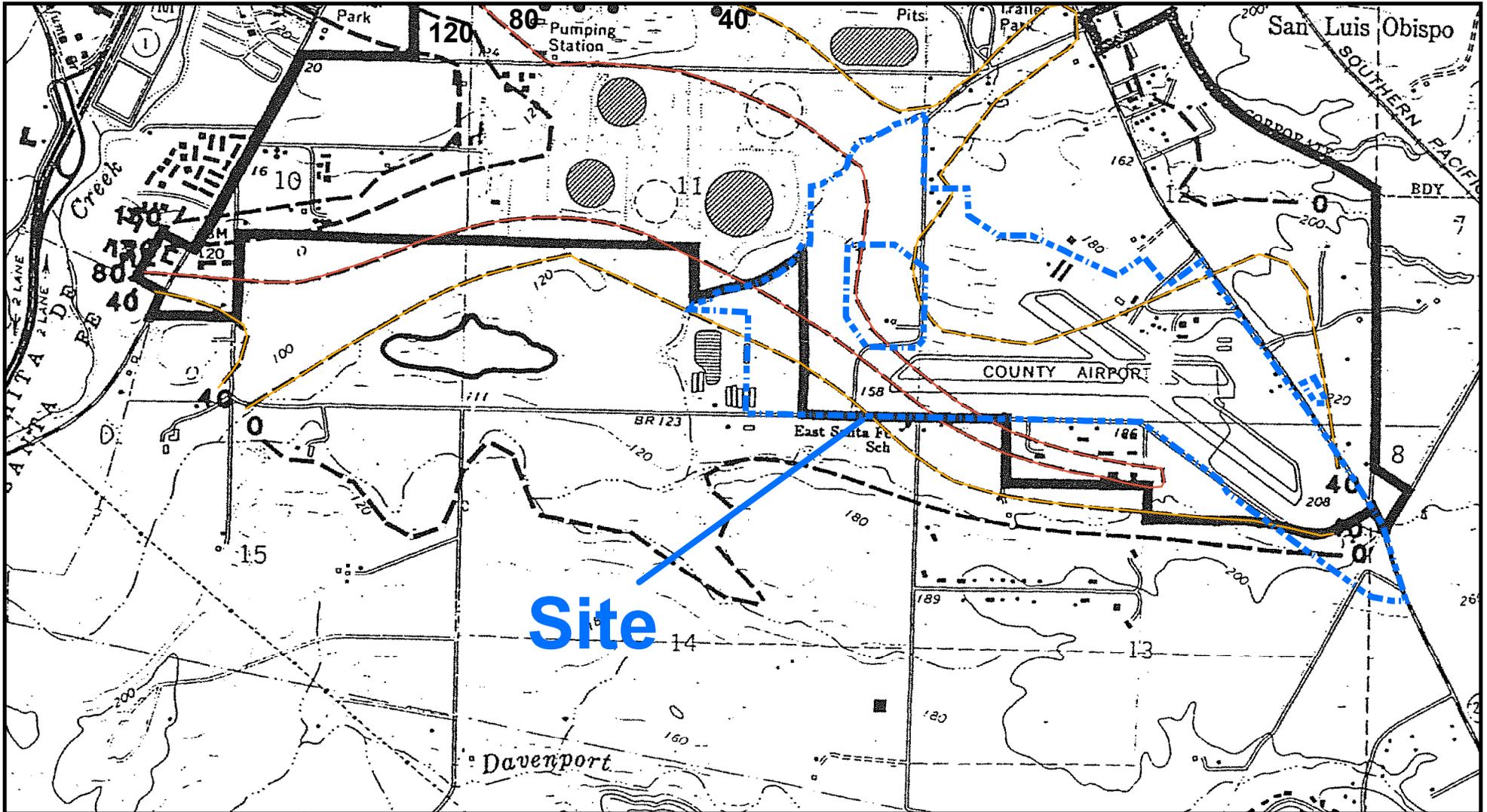
Image Source: Wiegiers Pismo Beach 7.5' Quadrangle, 2011

Legend:

- Site Boundary
- Qvoa: Paso Robles Formation
- Qya1: Young Alluvium
- Qya2: Young Alluvium
- Qoa: Old Alluvium
- Tps: Squire Member (Pismo Formation)
- KJfm: Franciscan Formation



REGIONAL GEOLOGY: WIEGERS		
SAN LUIS OBISPO, CALIFORNIA		
Prepared For: COUNTY OF SAN LUIS OBISPO		
 ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: PDF	Date: 10/10/2016
	Prepared by: MN	Scale: 1:20,000
	Project Mgr: KJ	Office: LA
	File No: F(AL)	Project: 2744.0001L002
		FIGURE 4



Modified from: Cleath Ground Water Study San Luis Obispo Airport Area, 1987

Legend:

-  Site Boundary
-  40-ft Alluvial Thickness Contour
-  80-ft Alluvial Thickness Contour
-  Alluvial Thickness in Feet



Title:
SAN LUIS VALLEY ALLUVIUM THICKNESS ISOPACH: CLEATH, 1987
 SAN LUIS OBISPO, CALIFORNIA

Prepared For:
 COUNTY OF SAN LUIS OBISPO

 ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: PDF	Date: 10/5/2016	FIGURE 5
	Prepared by: MN	Scale: 1:20,000	
	Project Mgr: KJ	Office: LA	
	File No: F(AL)	Project: 2744.0001L002	



Image Source: <http://gis.slocounty.ca.gov/arcgis/rest/services/Aerials>

Legend:

-  Cone Penetration Testing (CPT) Location
-  Buckley Road Drainage Outlet
-  Present Extent of Runways
-  Airport Operational Area
-  Site Boundary



Title:
CPT LOCATIONS
SAN LUIS OBISPO, CALIFORNIA

Prepared For:
COUNTY OF SAN LUIS OBISPO

ROUX ROUX ASSOCIATES, INC. <i>Environmental Consulting & Management</i>	Compiled by: PDF	Date: 10/5/2016	FIGURE 6
	Prepared by: MN	Scale: 1:1,500	
	Project Mgr: KJ	Office: LA	
	File No: F(AL)	Project: 2744.0001L002	

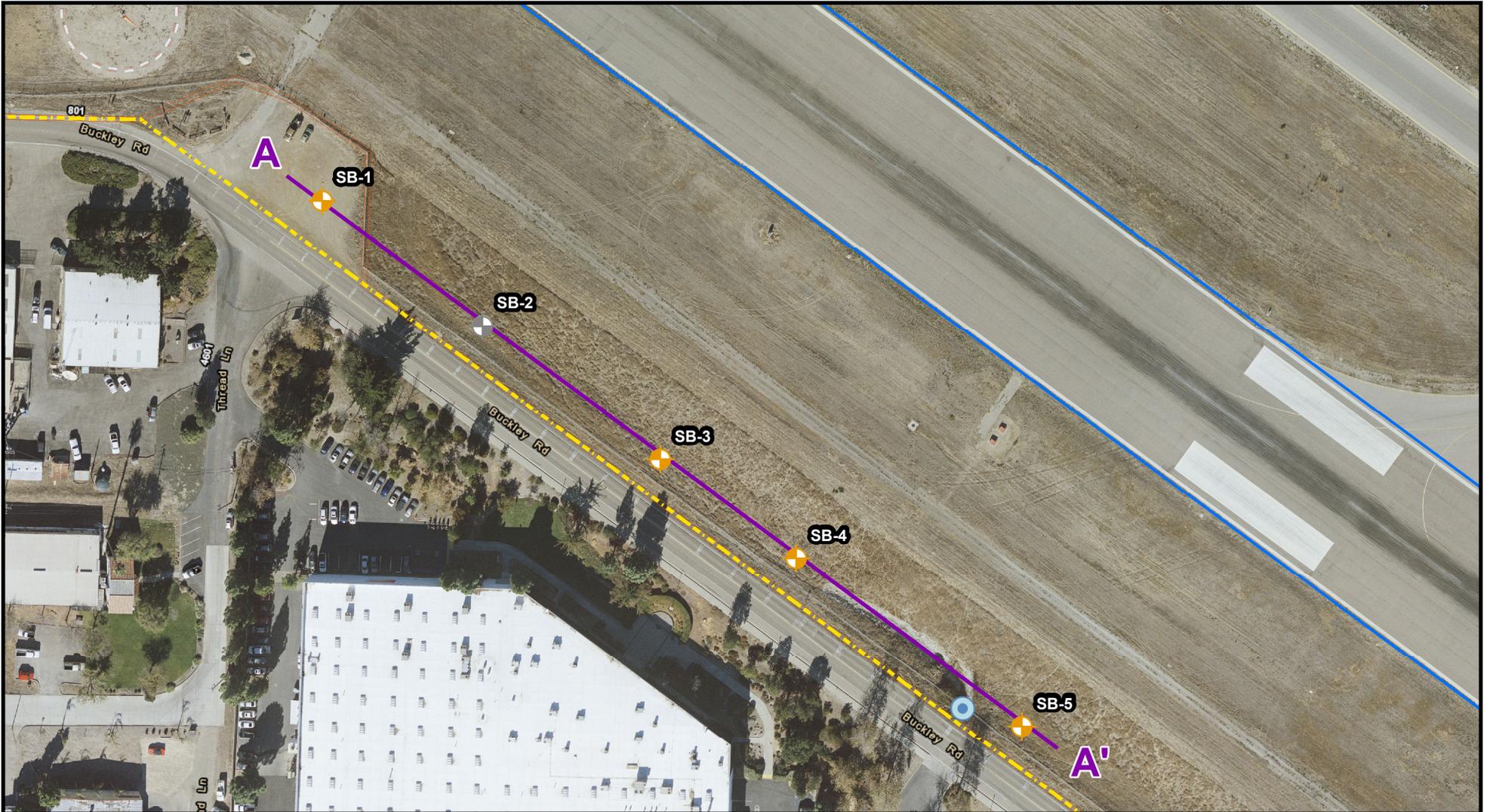


Image Source: <http://gis.slocounty.ca.gov/arcgis/rest/services/Aerials>

Legend:

- Sonic Drilling Location
- Boring Not Advanced
- A-A' Transect
- Buckley Road Drainage Outlet
- Present Extent of Runways
- Airport Operational Area
- Site Boundary



Title:

GROUNDWATER SAMPLE LOCATIONS

SAN LUIS OBISPO, CALIFORNIA

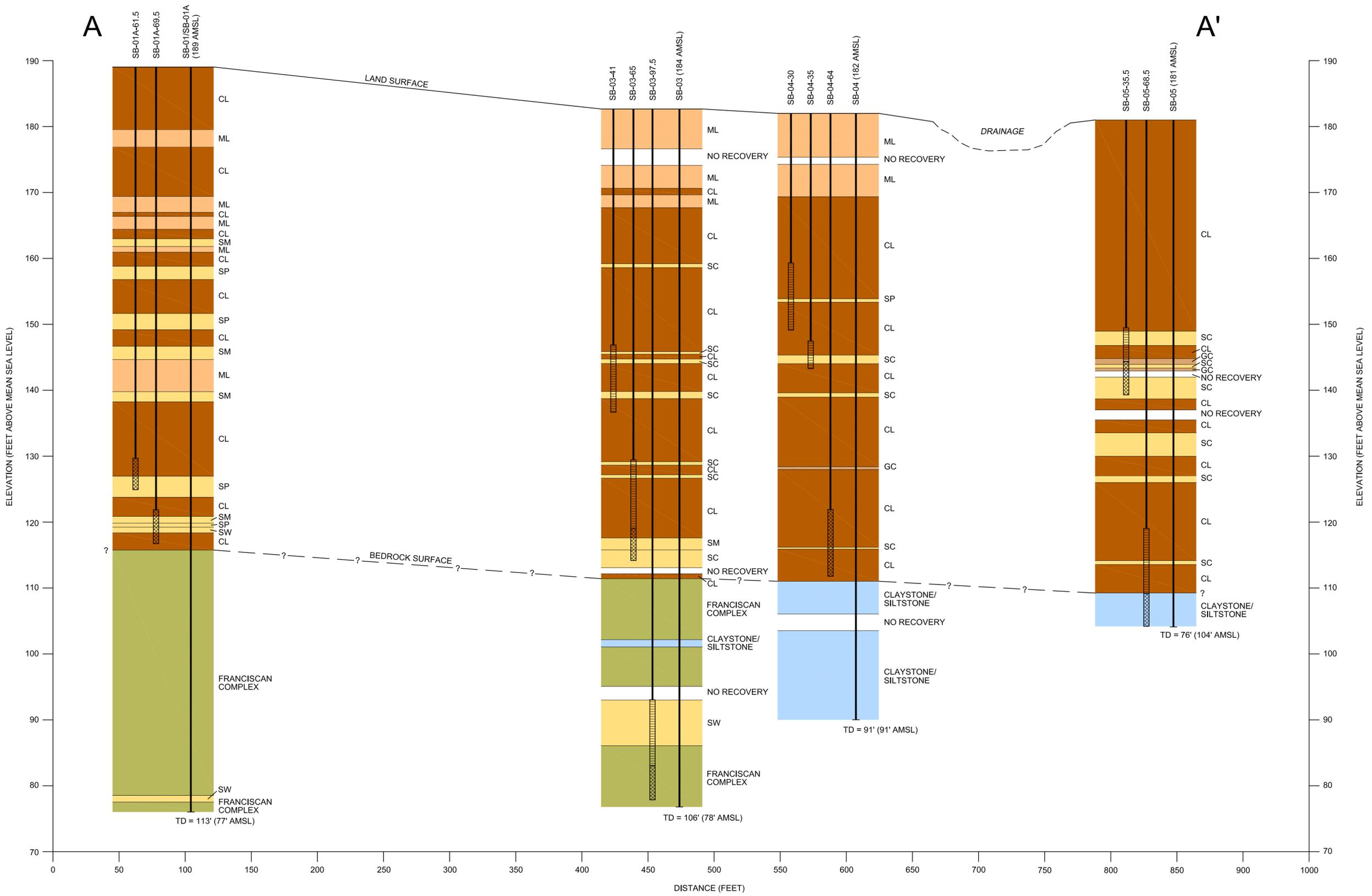
Prepared For:

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FIGURE
7



LEGEND

- NO RECOVERY
 - CL = CLAY
 - ML = SILT
 - SM = SILTY SAND
 - SP = SAND, POORLY GRADED
 - SW = SAND, WELL GRADED
 - SC = CLAYEY SAND
 - GC = CLAYEY GRAVEL
 - CLAYSTONE/SILTSTONE
 - FRANCISCAN COMPLEX
- ID NUMBER
 LAND SURFACE
 BOREHOLE
 WELL SCREEN
 WELL SCREEN (PREPACK)

CROSS SECTION VERTICAL EXAGGERATION = 5X
 ASSOCIATED TEMPORARY WELLS DEPICTED ADJACENT TO BORING LOCATION

Title:			
GEOLOGIC CROSS SECTION A-A'			
Prepared For:			
COUNTY OF SAN LUIS OBISPO			
	Compiled by: P.F.	Date: 05OCT16	FIGURE 8
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: K.J.	Project: 2744.0001L002	
	File: 2744.0001L103.01.DWG		

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Monitoring Well Permits



COUNTY OF SAN LUIS OBISPO
PUBLIC HEALTH DEPARTMENT
Environmental Health Services
 2156 Sierra Way • P.O. Box 1489
 San Luis Obispo, CA 93406-1489
 Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No.	<u>2016-036</u>
Submittal Complete	<input checked="" type="checkbox"/>
Date	<u>7/21/16</u>
By:	<u>ms</u>
WP No.	<u>WP104120</u> <u>110103794</u>

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor John Rogie C-57 License No. 884827
 Drilling Company Name California Push Technologies
 Business Address 820 Aladdin Avenue, San Leandro, CA 94577 Phone No. (650) 346-1490

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____
 Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'8.27" N 120°38'21.67" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
 Is the proposed well located within the city limits? Yes No Number of wells 5 temporary wells at this location

Well Type	Purpose of Well			Drilling Method		
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool		
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other		
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary	Direct Push		

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA
 Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.
Only the above named C-57 licensed driller may sign this permit application.

Signed [Signature] Date 7-11-16

Print Drilling Contractor Name John Rogie Drilling Contractor

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By <u>ms</u>	Date <u>7/25/16</u>	Fee Paid \$ <u>1060.</u>	Check # <u>51817</u>
Well Site Approved Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	By <u>[Signature]</u>	Date <u>7/20/16</u>	
Permit Expiration Date <u>11/21/17</u>			
Well Site Approval GPS Coordinates _____	N	W	
Special Requirements and /or Comments for Drilling Contractor _____			
Well Seal Witnessed? Yes <input type="checkbox"/> No <input type="checkbox"/>	By _____	Date _____	Seal Depth _____
Well Seal GPS Coordinates _____	N	W	

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO
PUBLIC HEALTH DEPARTMENT
Environmental Health Services
 2156 Sierra Way • P.O. Box 1489
 San Luis Obispo, CA 93406-1489
 Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No.	<u>2014-037</u>
Submittal Complete	<input checked="" type="checkbox"/>
Date	<u>7/21/14</u>
By:	<u>ms</u>
WP No.	<u>WP1014121</u>

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor John Rogie C-57 License No. 884827
 Drilling Company Name California Push Technologies
 Business Address 820 Aladdin Avenue, San Leandro, CA 94577 Phone No. (650) 346-1490

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo
 Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____
 Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'6.03" N 120°38'17.82" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
 Is the proposed well located within the city limits? Yes No Number of wells 5 temporary wells at this location

Well Type	Purpose of Well			Drilling Method		
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool		
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other		
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary	Direct Push		

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA
 Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.
Only the above named C-57 licensed driller may sign this permit application.

Signed [Signature] Date 7-11-16
 Drilling Contractor

Print Drilling Contractor Name John Rogie

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By <u>ms</u>	Date <u>7/25/14</u>	Fee Paid \$ <u>1060.-</u>	Check # <u>51817</u>
Well Site Approved Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	By <u>[Signature]</u>	Date <u>7/20/16</u>	
Permit Expiration Date <u>1/21/17</u>			
Well Site Approval GPS Coordinates _____ N _____ W			
Special Requirements and /or Comments for Drilling Contractor _____			
Well Seal Witnessed? Yes <input type="checkbox"/> No <input type="checkbox"/>	By _____	Date _____	Seal Depth _____
Well Seal GPS Coordinates _____ N _____ W			

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No.	<u>2016-038</u>
Submittal Complete	<input checked="" type="checkbox"/>
Date	<u>7/21/14</u>
By:	<u>ms</u>
WP No.	<u>WP104122</u>

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor John Rogie C-57 License No. 884827
 Drilling Company Name California Push Technologies
 Business Address 820 Aladdin Avenue, San Leandro, CA 94577 Phone No. (650) 346-1490

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township Coastal Range GPS Section Zone? NO
 Parcel Size (acres) 188 Coordinates 35°14'4.42" N 120°38'14.86" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
 Is the proposed well located within the city limits? Yes No Number of wells 5 temporary wells at this location

Well Type	Purpose of Well			Drilling Method		
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Other	<input type="checkbox"/> Direct Push
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other		
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary			

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA

Agency requiring monitoring well implementation, and/or reason for monitoring well:

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

Only the above named C-57 licensed driller may sign this permit application.

Signed [Signature] Date 7-11-16
 Drilling Contractor

Print Drilling Contractor Name John Rogie

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) Drilling shall not commence until this application is approved.

OFFICE USE ONLY

Received By	<u>ms</u>	Date	<u>7/25/16</u>	Fee Paid \$	<u>1060.-</u>	Check #	<u>51817</u>
Well Site Approved	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	By	<u>[Signature]</u>	Date	<u>7/20/16</u>		
Permit Expiration Date	<u>11/21/17</u>						
Well Site Approval GPS Coordinates							
Special Requirements and /or Comments for Drilling Contractor							
Well Seal Witnessed?	Yes <input type="checkbox"/> No <input type="checkbox"/>	By		Date		Seal Depth	
Well Seal GPS Coordinates							

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No.	<u>2014-039</u>
Submittal Complete	<input checked="" type="checkbox"/>
Date	<u>7/21/16</u>
By:	<u>ms</u>
WP No.	<u>WP1014123</u>

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor John Rogie C-57 License No. 884827
 Drilling Company Name California Push Technologies
 Business Address 820 Aladdin Avenue, San Leandro, CA 94577 Phone No. (650) 346-1490

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____
 Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'7.12" N 120°38'19.74" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
 Is the proposed well located within the city limits? Yes No Number of wells 5 5 temporary wells at this location

Well Type	Purpose of Well			Drilling Method		
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool		
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other		
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary	Direct Push		

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA
 Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.
Only the above named C-57 licensed driller may sign this permit application.

Signed [Signature] Date 7-11-16
 Drilling Contractor

Print Drilling Contractor Name John Rogie

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By <u>ms</u>	Date <u>7/25/16</u>	Fee Paid \$ <u>10600</u>	Check # <u>51817</u>
Well Site Approved Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	By <u>[Signature]</u>	Date <u>7/25/16</u>	
Permit Expiration Date <u>1/21/17</u>			
Well Site Approval GPS Coordinates _____ N _____ W			
Special Requirements and /or Comments for Drilling Contractor _____			
Well Seal Witnessed? Yes <input type="checkbox"/> No <input type="checkbox"/>	By _____	Date _____	Seal Depth _____
Well Seal GPS Coordinates _____ N _____ W			

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO
PUBLIC HEALTH DEPARTMENT
Environmental Health Services
 2156 Sierra Way • P.O. Box 1489
 San Luis Obispo, CA 93406-1489
 Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No.	<u>2016-040</u>
Submittal Complete	<input checked="" type="checkbox"/>
Date	<u>7/21/14</u>
By:	<u>ms</u>
WP No.	<u>WP1014124</u>

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805)781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor John Rogie C-57 License No. 884827
 Drilling Company Name California Push Technologies
 Business Address 820 Aladdin Avenue, San Leandro, CA 94577 Phone No. (650)346-1490

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____
 Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'8.65" N 120°38'24.01" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
 Is the proposed well located within the city limits? Yes No Number of wells 5 temporary wells at this location

Well Type	Purpose of Well			Drilling Method		
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool		
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other		
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary	Direct Push		

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA
 Agency requiring monitoring well implementation, and/or reason for monitoring well:

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.
Only the above named C-57 licensed driller may sign this permit application.

Signed [Signature] Date 7-11-16
 Drilling Contractor John Rogie

Print Drilling Contractor Name John Rogie

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By <u>ms</u>	Date <u>7/25/14</u>	Fee Paid \$ <u>6060-</u>	Check # <u>51817</u>
Well Site Approved Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	By <u>[Signature]</u>	Date <u>7/20/16</u>	
Permit Expiration Date <u>1/21/17</u>			
Well Site Approval GPS Coordinates _____ N _____ W			
Special Requirements and /or Comments for Drilling Contractor _____			
Well Seal Witnessed? Yes <input type="checkbox"/> No <input type="checkbox"/>	By _____	Date _____	Seal Depth _____
Well Seal GPS Coordinates _____ N _____ W			

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No.	<u>2016-050</u>
Submittal Complete	<input checked="" type="checkbox"/>
Date	<u>8/17/16</u>
By:	<u>CR</u>
WP No.	<u>WP1014260</u> <u>103896</u>

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor Mario Romero C-57 License No. 938110
 Drilling Company Name Cascade Drilling
 Business Address 1333 W 9th St, Upland, CA 91786 Phone No. (909) 946-1605

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____
 Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'8.55" N 120°38'24.01" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
 Is the proposed well located within the city limits? Yes No **Number of wells** 1 temporary well at this location

Well Type		Purpose of Well		Drilling Method	
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Other
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Sonic	
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary		

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA
 Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

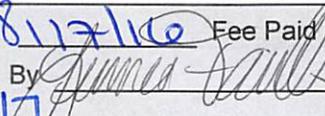
Only the above named C-57 licensed driller may sign this permit application.

Signed Mario Romero  Date 8-10-2016
 Drilling Contractor

Print Drilling Contractor Name Cascade Drilling

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By <u>CR</u>	Date <u>8/17/16</u>	Fee Paid \$ <u>212.00</u>	Check # <u>51975</u>
Well Site Approved Yes <input type="checkbox"/> No <input type="checkbox"/>	By 	Date <u>8/18/16</u>	
Permit Expiration Date <u>2/18/17</u>			
Well Site Approval GPS Coordinates _____	N _____	W _____	
Special Requirements and /or Comments for Drilling Contractor _____			
Well Seal Witnessed? Yes <input type="checkbox"/> No <input type="checkbox"/>	By _____	Date _____	Seal Depth _____
Well Seal GPS Coordinates _____	N _____	W _____	

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE

Permit No. 2016-051

Submittal Complete

Date 8/17/16

By: CR

WP No. WP1014261

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor Mario Romero C-57 License No. 938110
 Drilling Company Name Cascade Drilling
 Business Address 1333 W 9th St, Upland, CA 91786 Phone No. (909) 946-1605

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____

Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'7.52" N 120°38'22.30" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo

Is the proposed well located within the city limits? Yes No Number of wells 1 temporary well at this location

Well Type		Purpose of Well			Drilling Method		
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool			
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other			
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary	Sonic			

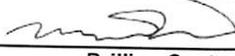
Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA

Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

Only the above named C-57 licensed driller may sign this permit application.

Signed Mario Romero  Date 8/10/2016
Drilling Contractor

Print Drilling Contractor Name Cascade Drilling

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) Drilling shall not commence until this application is approved.

OFFICE USE ONLY

Received By CR Date 8/17/16 Fee Paid \$ 212.00 Check # 51975
 Well Site Approved Yes No By Juanita Valle Date 8/18/16
 Permit Expiration Date 2/18/17
 Well Site Approval GPS Coordinates _____ N _____ W
 Special Requirements and /or Comments for Drilling Contractor _____
 Well Seal Witnessed? Yes No By _____ Date _____ Seal Depth _____
 Well Seal GPS Coordinates _____ N _____ W

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No.	<u>2016-052</u>
Submittal Complete	<input checked="" type="checkbox"/>
Date	<u>8 / 17 / 16</u>
By:	<u>CR</u>
WP No.	<u>WP1014262</u>

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor Mario Romero C-57 License No. 938110
 Drilling Company Name Cascade Drilling
 Business Address 1333 W 9th St, Upland, CA 91786 Phone No. (909) 946-1605

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____
 Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'5.60" N 120°38'18.95" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
 Is the proposed well located within the city limits? Yes No **Number of wells** 1 temporary well at this location

Well Type		Purpose of Well		Drilling Method	
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Soil Testing	<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable Tool	
<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other	
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary	<input type="checkbox"/> Sonic	

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA
 Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of sampling is to evaluate TCE impacts to groundwater.

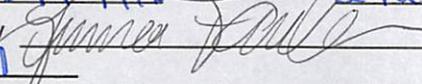
I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.
Only the above named C-57 licensed driller may sign this permit application.

Signed Mario Romero  Date 8/10/2016
 Drilling Contractor

Print Drilling Contractor Name Cascade Drilling

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By <u>CR</u>	Date <u>8/17/16</u>	Fee Paid \$ <u>212.00</u>	Check # <u>51975</u>
Well Site Approved Yes <input type="checkbox"/> No <input type="checkbox"/>	By 	Date <u>8/18/16</u>	
Permit Expiration Date <u>2/18/17</u>			
Well Site Approval GPS Coordinates _____ N _____ W			
Special Requirements and /or Comments for Drilling Contractor _____			
Well Seal Witnessed? Yes <input type="checkbox"/> No <input type="checkbox"/>	By _____	Date _____	Seal Depth _____
Well Seal GPS Coordinates _____ N _____ W			

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE

Permit No. 2016-053

Submittal Complete

Date 8/17/16

By: CR

WP No. WP1014263

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071

Name of Property Owner County of San Luis Obispo Phone No. ()

Mailing Address of Property Owner County Governmnet Center, Room D430, San Luis Obispo, CA 93408

Name of Drilling Contractor Mario Romero C-57 License No. 938110

Drilling Company Name Cascade Drilling

Business Address 1333 W 9th St, Upland, CA 91786 Phone No. (909) 946-1605

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____

Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'4.20" N 120°38'16.55" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo

Is the proposed well located within the city limits? Yes No **Number of wells** 1 temporary well at this location

Well Type		Purpose of Well		Drilling Method	
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<input type="checkbox"/> Repair/Modify	<input checked="" type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Sonic
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary		

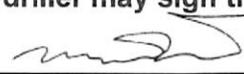
Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA

Agency requiring monitoring well implementation, and/or reason for monitoring well:

Purpose of sampling is to evaluate TCE impacts to groundwater.

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

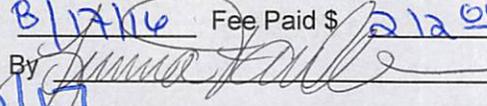
Only the above named C-57 licensed driller may sign this permit application.

Signed Mario Romero  Date 8/10/2016
Drilling Contractor

Print Drilling Contractor Name Cascade Drilling

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By <u>CR</u>	Date <u>8/17/16</u>	Fee Paid \$ <u>212.00</u>	Check # <u>51975</u>
Well Site Approved Yes <input type="checkbox"/> No <input type="checkbox"/>	By <u></u>	Date <u>8/18/16</u>	
Permit Expiration Date <u>2/18/17</u>			
Well Site Approval GPS Coordinates _____ N _____ W			
Special Requirements and /or Comments for Drilling Contractor _____			
Well Seal Witnessed? Yes <input type="checkbox"/> No <input type="checkbox"/>	By _____	Date _____	Seal Depth _____
Well Seal GPS Coordinates _____ N _____ W			

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE

Permit No. 2016-041

Submittal Complete

Date 7/18/14

By: ms

WP No. WP1014125

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071

Name of Property Owner County of San Luis Obispo Phone No. ()

Mailing Address of Property Owner County Government Center, Room D430, San Luis Obispo, CA 93408

Name of Drilling Contractor Mario Romero C-57 License No. 938110

Drilling Company Name Cascade Drilling

Business Address 13333 W 9th St, Upland, CA 91786 Phone No. ()

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____

Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'4.42" N 120°38'14.86" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo

Is the proposed well located within the city limits? Yes No Number of wells No well is being placed

Well Type	Purpose of Well	Drilling Method
<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Rotary
<input type="checkbox"/> Repair/Modify	<input type="checkbox"/> Test well	<input type="checkbox"/> Reverse Rotary
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Air Rotary
	<input checked="" type="checkbox"/> Soil Testing	<input type="checkbox"/> Cable Tool
	<input type="checkbox"/> Cathodic Protection	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Sparging	Sonic

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA

Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of boring is to log soil lithology

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

Only the above named C-57 licensed driller may sign this permit application.

Signed [Signature] Date 07/11/2016

Drilling Contractor

Print Drilling Contractor Name Paul Atkinson

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." (See second page) **Drilling shall not commence until this application is approved.**

OFFICE USE ONLY

Received By ms Date 7/25/14 Fee Paid \$ 212- Check # 51817

Well Site Approved Yes No By [Signature] Date 7/20/16

Permit Expiration Date 1/21/17

Well Site Approval GPS Coordinates _____ N _____ W

Special Requirements and /or Comments for Drilling Contractor _____

Well Seal Witnessed? Yes No By _____ Date _____ Seal Depth _____

Well Seal GPS Coordinates _____ N _____ W

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO
PUBLIC HEALTH DEPARTMENT
Environmental Health Services
 2156 Sierra Way • P.O. Box 1489
 San Luis Obispo, CA 93406-1489
 Phone: (805) 781-5544 FAX: (805) 781-4211

OFFICE USE	
Permit No. <u>2016-049</u>	
Submittal Complete <input checked="" type="checkbox"/>	
Date <u>7/26/16</u>	
By: <u>ms</u>	
WP No. <u>WP1014149</u>	
<u>170103818</u>	

MONITORING WELL PERMIT APPLICATION

Name of Well Owner County of San Luis Obispo Phone No. (805) 781-5071
 Name of Property Owner County of San Luis Obispo Phone No. ()
 Mailing Address of Property Owner County Government Center, Room D430, San Luis Obispo, CA 93408
 Name of Drilling Contractor Mario Romero C-57 License No. 938110
 Drilling Company Name Cascade Drilling
 Business Address 13333 W 9th St, Upland, CA 91786 Phone No. ()

Proposed Well Site Address 901 Airport Drive, San Luis Obispo, CA City or Area of County San Luis Obispo

Assessor's Parcel No. 076-401-064 Township _____ Range _____ Section _____
 Parcel Size (acres) 188 Coastal Zone? NO GPS Coordinates 35°14'4.42" N 120°38'14.86" W

Is the parcel served water by a public water agency? No Yes Name of public water agency City of San Luis Obispo
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<input type="checkbox"/> Repair/Modify	<input type="checkbox"/> Test well	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Reverse Rotary	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Sparging	<input type="checkbox"/> Air Rotary	<input type="checkbox"/> Sonic

Proposed Depth 100 Casing Diameter NA Annular Seal Depth NA
 Agency requiring monitoring well implementation, and/or reason for monitoring well: _____

Purpose of boring is to log soil lithology

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within sixty days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.
Only the above named C-57 licensed driller may sign this permit application.

Signed [Signature] Date 07/11/2016
 Drilling Contractor

Print Drilling Contractor Name Paul Atkinson

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OFFICE USE ONLY

Received By ms Date 7/25/16 Fee Paid \$ 212 Check # 1752
 Well Site Approved Yes No By [Signature] Date 7-26-16
 Permit Expiration Date 7/26/17
 Well Site Approval GPS Coordinates _____ N _____ W
 Special Requirements and /or Comments for Drilling Contractor _____

Well Seal Witnessed? Yes No By _____ Date _____ Seal Depth _____
 Well Seal GPS Coordinates _____ N _____ W

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE

Groundwater Investigation Report
San Luis Obispo, California

APPENDIX B

CPT Report

PRESENTATION OF SITE INVESTIGATION RESULTS

SLO County Airport

Prepared for:

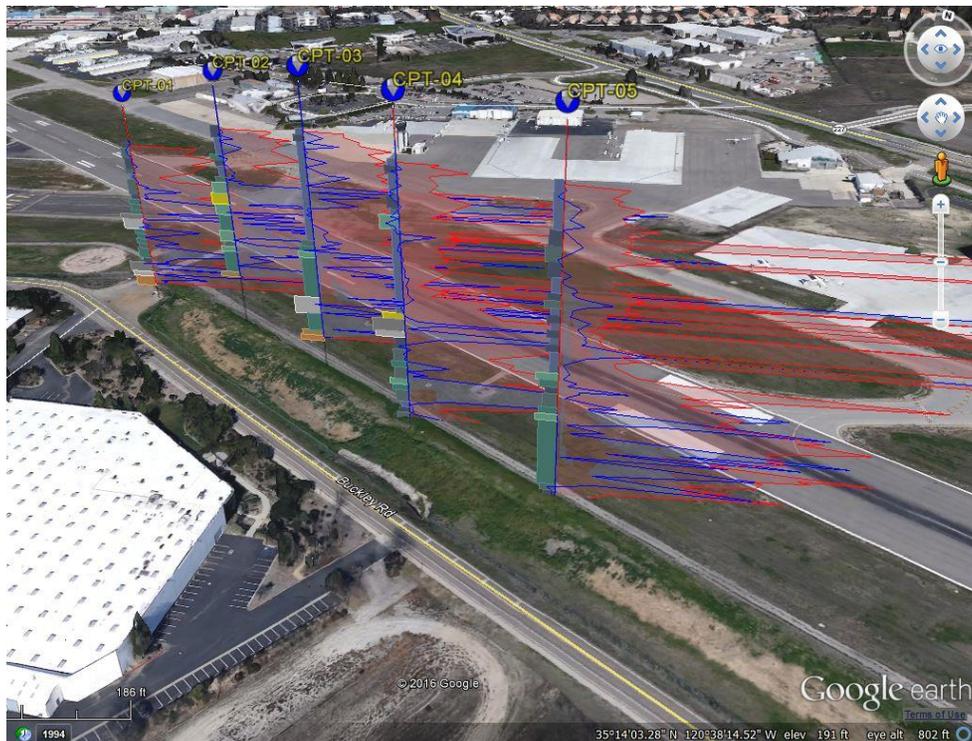
Roux Associates Inc.

CPT Inc. Job No: 16-56048

Project Start Date: 27-Jul-2016

Project End Date: 27-Jul-2016

Report Date: 03-Aug-2016



Prepared by:

California Push Technologies Inc.
820 Aladdin Avenue
San Leandro, CA 94577

Tel: (510) 357-3677

Email: cpt@cptinc.com

www.cptinc.com



Introduction

The enclosed report presents the results of the site investigation program conducted by CPT Inc. for Roux Associates Inc. at the San Luis Obispo County Regional Airport. The program consisted of five cone penetration tests (CPT).

Project Information

Project	
Client	Roux Associates Inc.
Project	SLO County Airport
CPT Inc. project number	16-56048

A map from Google earth including the CPT test locations is presented below.



Rig Description	Deployment System	Test Type
CPT Truck Rig (C-15)	30 ton rig cylinder	CPT

Coordinates		
Test Type	Collection Method	EPSG Reference
CPT	Consumer grade GPS	26910

Cone Penetration Test (CPT)	
Depth reference	Depths are referenced to the existing ground surface at the time of each test.
Tip and sleeve data offset	0.1 meter This has been accounted for in the CPT data files.
Additional plots	Advanced cone penetration test plots with I_c , $S_u(Nkt)$, and $N1(60)$ have been included.

Cone Penetrometers Used for this Project						
Cone Description	Cone Number	Cross Sectional Area (cm ²)	Sleeve Area (cm ²)	Tip Capacity (bar)	Sleeve Capacity (bar)	Pore Pressure Capacity (psi)
391:T1500F15U500	AD391	15	225	1500	15	500
443:T1500F15U500	AD445	15	225	1500	15	500
Cone AD391 was used for soundings CPT-01 and CPT-04.						
Cone AD443 was used for soundings CPT-02, CPT-03, and CPT-05.						

Interpretation Tables	
Additional information	<p>The Soil Behaviour Type (SBT) classification chart (Robertson et al., 1986) was used to classify the soil for this project. A detailed set of CPT interpretations were generated and are provided in Excel format files in the release folder. The CPT interpretations are based on values of corrected tip (q_t), sleeve friction (f_s) and pore pressure (u_2).</p> <p>Soils were classified as either drained or undrained based on the Soil Behaviour Type (SBT) classification chart (Robertson et al., 1986). Calculations for both drained and undrained parameters were included for materials that classified as silt (Zone 6). Calculations for undrained parameters were included for materials that classified as undefined (zone 0).</p>

Limitations

This report has been prepared for the exclusive use of Roux Associates Inc. (Client) for the project titled "SLO County Airport". The report's contents may not be relied upon by any other party without the express written permission of CPT Inc. CPT Inc. has provided site investigation services, prepared the factual data reporting, and provided geotechnical parameter calculations consistent with current best practices. No other warranty, expressed or implied, is made.

The information presented in the report document and the accompanying data set pertain to the specific project, site conditions and objectives described to CPT Inc. by the Client. In order to properly understand the factual data, assumptions and calculations, reference must be made to the documents provided and their accompanying data sets, in their entirety.

The cone penetration tests (CPTu) are conducted using an integrated electronic piezocone penetrometer and data acquisition system manufactured by Adara Systems Ltd. of Richmond, British Columbia, Canada.

CPT Inc.'s piezocone penetrometers are compression type designs in which the tip and friction sleeve load cells are independent and have separate load capacities. The piezocones use strain gauged load cells for tip and sleeve friction and a strain gauged diaphragm type transducer for recording pore pressure. The piezocones also have a platinum resistive temperature device (RTD) for monitoring the temperature of the sensors, an accelerometer type dual axis inclinometer and a geophone sensor for recording seismic signals. All signals are amplified down hole within the cone body and the analog signals are sent to the surface through a shielded cable.

The penetrometers are manufactured with various tip, friction and pore pressure capacities in both 10 cm² and 15 cm² tip base area configurations in order to maximize signal resolution for various soil conditions. The specific piezocone used for each test is described in the CPT summary table presented in the first appendix. The 15 cm² penetrometers do not require friction reducers as they have a diameter larger than the deployment rods. The 10 cm² piezocones use a friction reducer consisting of a rod adapter extension behind the main cone body with an enlarged cross sectional area (typically 44 mm diameter over a length of 32 mm with tapered leading and trailing edges) located at a distance of 585 mm above the cone tip.

The penetrometers are designed with equal end area friction sleeves, a net end area ratio of 0.8 and cone tips with a 60 degree apex angle.

All piezocones can record pore pressure at various locations. Unless otherwise noted, the pore pressure filter is located directly behind the cone tip in the "u₂" position (ASTM Type 2). The filter is 6 mm thick, made of porous plastic (polyethylene) having an average pore size of 125 microns (90-160 microns). The function of the filter is to allow rapid movements of extremely small volumes of water needed to activate the pressure transducer while preventing soil ingress or blockage.

The piezocone penetrometers are manufactured with dimensions, tolerances and sensor characteristics that are in general accordance with the current ASTM D5778 standard. Our calibration criteria also meet or exceed those of the current ASTM D5778 standard. An illustration of the piezocone penetrometer is presented in Figure CPTu.

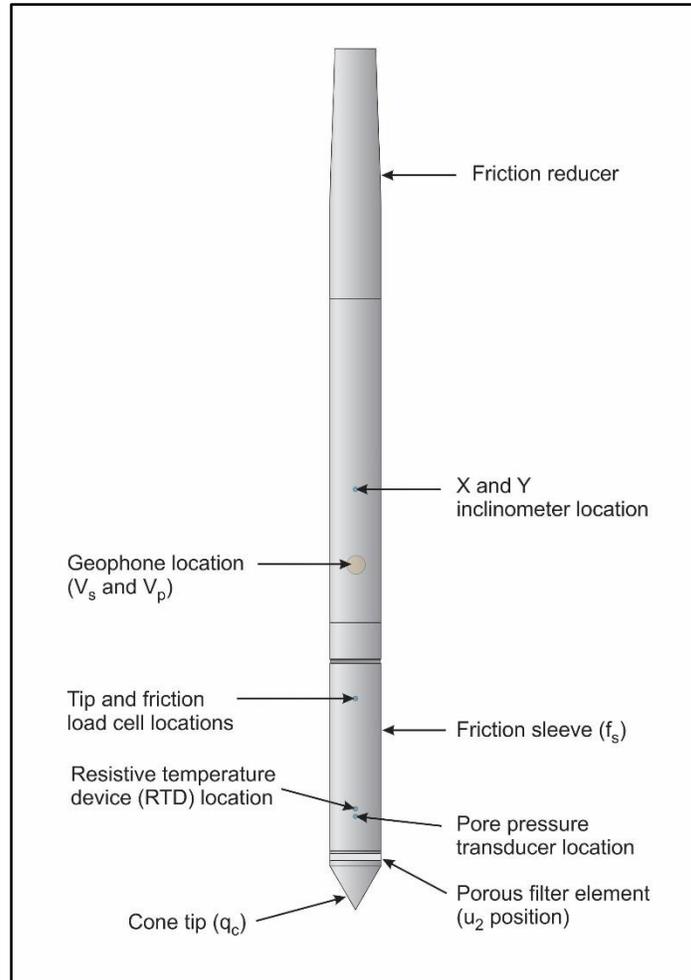


Figure CPTu. Piezocone Penetrometer (15 cm²)

The data acquisition systems consist of a Windows based computer and a signal conditioner and power supply interface box with a 16 bit (or greater) analog to digital (A/D) converter. The data is recorded at fixed depth increments using a depth wheel attached to the push cylinders or by using a spring loaded rubber depth wheel that is held against the cone rods. The typical recording intervals are either 2.5 cm or 5.0 cm depending on project requirements; custom recording intervals are possible. The system displays the CPTu data in real time and records the following parameters to a storage media during penetration:

- Depth
- Uncorrected tip resistance (q_c)
- Sleeve friction (f_s)
- Dynamic pore pressure (u)
- Additional sensors such as resistivity, passive gamma, ultra violet induced fluorescence, if applicable

All testing is performed in accordance to CPT Inc.'s CPT operating procedures which are in general accordance with the current ASTM D5778 standard.

Prior to the start of a CPTu sounding a suitable cone is selected, the cone and data acquisition system are powered on, the pore pressure system is saturated with either glycerin or silicone oil and the baseline readings are recorded with the cone hanging freely in a vertical position.

The CPTu is conducted at a steady rate of 2 cm/s, within acceptable tolerances. Typically one meter length rods with an outer diameter of 1.5 inches are added to advance the cone to the sounding termination depth. After cone retraction final baselines are recorded.

Additional information pertaining to CPT Inc.'s cone penetration testing procedures:

- Each filter is saturated in silicone oil or glycerin under vacuum pressure prior to use
- Recorded baselines are checked with an independent multi-meter
- Baseline readings are compared to previous readings
- Soundings are terminated at the client's target depth or at a depth where an obstruction is encountered, excessive rod flex occurs, excessive inclination occurs, equipment damage is likely to take place, or a dangerous working environment arises
- Differences between initial and final baselines are calculated to ensure zero load offsets have not occurred and to ensure compliance with ASTM standards

The interpretation of the piezocone data and associated calculated parameters for this report are based on the corrected tip resistance (q_t), sleeve friction (f_s) and pore water pressure (u). The interpretation of soil type is based on the correlations developed by Robertson (1990) and Robertson (2009). It should be noted that it is not always possible to accurately identify a soil type based on these parameters. In these situations, experience, judgment and an assessment of other parameters may be used to infer soil behavior type.

The recorded tip resistance (q_c) is the total force acting on the piezocone tip divided by its base area. The tip resistance is corrected for pore pressure effects and termed corrected tip resistance (q_t) according to the following expression presented in Robertson et al, 1986:

$$q_t = q_c + (1-a) \cdot u_2$$

where: q_t is the corrected tip resistance

q_c is the recorded tip resistance

u_2 is the recorded dynamic pore pressure behind the tip (u_2 position)

a is the Net Area Ratio for the piezocone (0.8 for CPT Inc. probes)

The sleeve friction (f_s) is the frictional force on the sleeve divided by its surface area. As all CPT Inc. piezocones have equal end area friction sleeves, pore pressure corrections to the sleeve data are not required.

The dynamic pore pressure (u) is a measure of the pore pressures generated during cone penetration. To record equilibrium pore pressure, the penetration must be stopped to allow the dynamic pore pressures to stabilize. The rate at which this occurs is predominantly a function of the permeability of the soil and the diameter of the cone.

The friction ratio (R_f) is a calculated parameter. It is defined as the ratio of sleeve friction to the tip resistance expressed as a percentage. Generally, saturated cohesive soils have low tip resistance, high friction ratios and generate large excess pore water pressures. Cohesionless soils have higher tip resistances, lower friction ratios and do not generate significant excess pore water pressure.

A summary of the CPTu soundings along with test details and individual plots are provided in the appendices. A set of files with calculated geotechnical parameters were generated for each sounding based on published correlations and are provided in Excel format in the data release folder. Information regarding the methods used is also included in the data release folder.

For additional information on CPTu interpretations and calculated geotechnical parameters, refer to Robertson et al. (1986), Lunne et al. (1997), Robertson (2009), Mayne (2013, 2014) and Mayne and Peuchen (2012).

The cone penetration test is halted at specific depths to carry out pore pressure dissipation (PPD) tests, shown in Figure PPD-1. For each dissipation test the cone and rods are decoupled from the rig and the data acquisition system measures and records the variation of the pore pressure (u) with time (t).

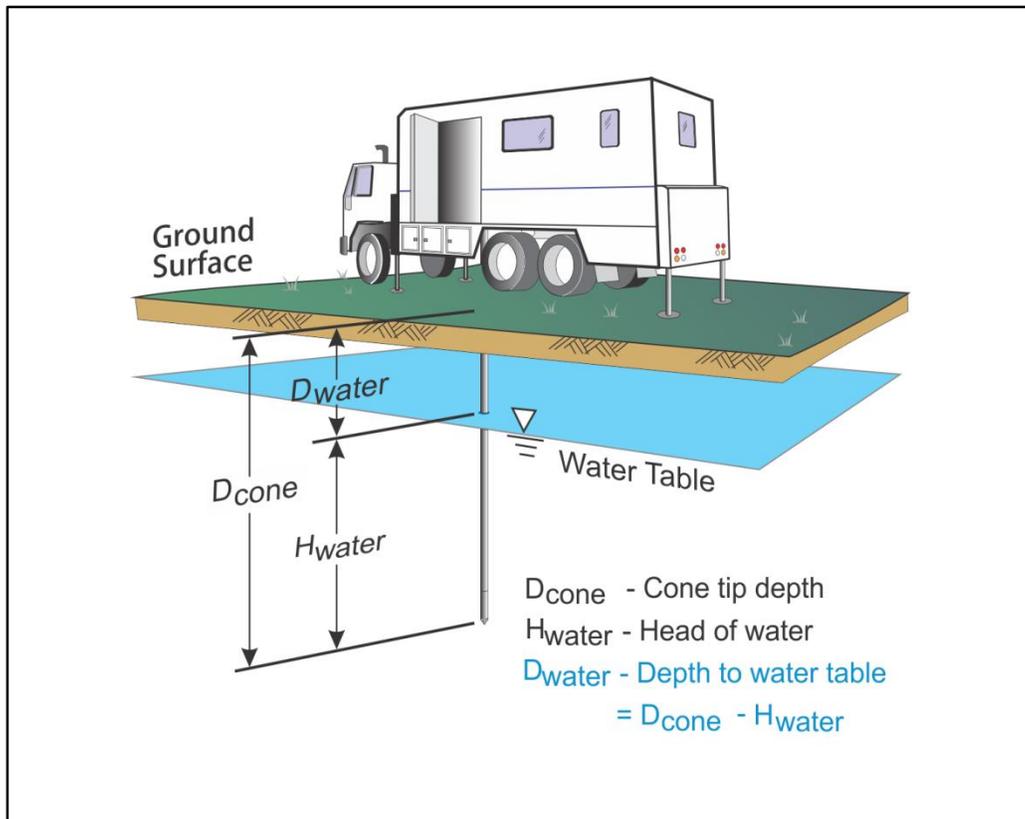


Figure PPD-1. Pore pressure dissipation test setup

Pore pressure dissipation data can be interpreted to provide estimates of ground water conditions, permeability, consolidation characteristics and soil behavior.

The typical shapes of dissipation curves shown in Figure PPD-2 are very useful in assessing soil type, drainage, in situ pore pressure and soil properties. A flat curve that stabilizes quickly is typical of a freely draining sand. Undrained soils such as clays will typically show positive excess pore pressure and have long dissipation times. Dilative soils will often exhibit dynamic pore pressures below equilibrium that then rise over time. Overconsolidated fine-grained soils will often exhibit an initial dilatatory response where there is an initial rise in pore pressure before reaching a peak and dissipating.

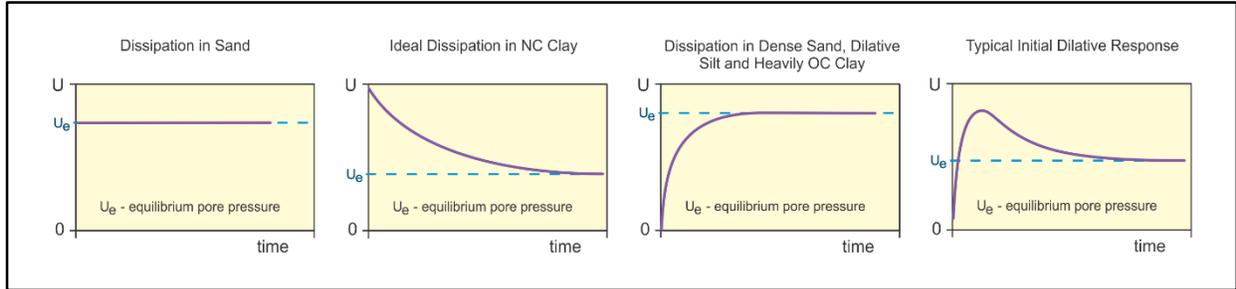


Figure PPD-2. Pore pressure dissipation curve examples

In order to interpret the equilibrium pore pressure (u_{eq}) and the apparent phreatic surface, the pore pressure should be monitored until such time as there is no variation in pore pressure with time as shown for each curve of Figure PPD-2.

In fine grained deposits the point at which 100% of the excess pore pressure has dissipated is known as t_{100} . In some cases this can take an excessive amount of time and it may be impractical to take the dissipation to t_{100} . A theoretical analysis of pore pressure dissipations by Teh and Houlsby (1991) showed that a single curve relating degree of dissipation versus theoretical time factor (T^*) may be used to calculate the coefficient of consolidation (c_h) at various degrees of dissipation resulting in the expression for c_h shown below.

$$c_h = \frac{T^* \cdot a^2 \cdot \sqrt{I_r}}{t}$$

Where:

- T^* is the dimensionless time factor (Table Time Factor)
- a is the radius of the cone
- I_r is the rigidity index
- t is the time at the degree of consolidation

Table Time Factor. T^* versus degree of dissipation (Teh and Houlsby, 1991)

Degree of Dissipation (%)	20	30	40	50	60	70	80
$T^* (u_2)$	0.038	0.078	0.142	0.245	0.439	0.804	1.60

The coefficient of consolidation is typically analyzed using the time (t_{50}) corresponding to a degree of dissipation of 50% (u_{50}). In order to determine t_{50} , dissipation tests must be taken to a pressure less than u_{50} . The u_{50} value is half way between the initial maximum pore pressure and the equilibrium pore pressure value, known as u_{100} . To estimate u_{50} , both the initial maximum pore pressure and u_{100} must be known or estimated. Other degrees of dissipations may be considered, particularly for extremely long dissipations.

At any specific degree of dissipation the equilibrium pore pressure (u at t_{100}) must be estimated at the depth of interest. The equilibrium value may be determined from one or more sources such as measuring the value directly (u_{100}), estimating it from other dissipations in the same profile, estimating the phreatic surface and assuming hydrostatic conditions, from nearby soundings, from client provided information, from site observations and/or past experience, or from other site instrumentation.

For calculations of c_h (Teh and Houlsby, 1991), t_{50} values are estimated from the corresponding pore pressure dissipation curve and a rigidity index (I_r) is assumed. For curves having an initial dilatatory response in which an initial rise in pore pressure occurs before reaching a peak, the relative time from the peak value is used in determining t_{50} . In cases where the time to peak is excessive, t_{50} values are not calculated.

Due to possible inherent uncertainties in estimating I_r , the equilibrium pore pressure and the effect of an initial dilatatory response on calculating t_{50} , other methods should be applied to confirm the results for c_h .

Additional published methods for estimating the coefficient of consolidation from a piezocone test are described in Burns and Mayne (1998, 2002), Jones and Van Zyl (1981), Robertson et al. (1992) and Sully et al. (1999).

A summary of the pore pressure dissipation tests and dissipation plots are presented in the relevant appendix.

REFERENCES

- ASTM D5778-12, 2012, "Standard Test Method for Performing Electronic Friction Cone and Piezocone Penetration Testing of Soils", ASTM, West Conshohocken, US.
- Burns, S.E. and Mayne, P.W., 1998, "Monotonic and dilatatory pore pressure decay during piezocone tests", *Canadian Geotechnical Journal* 26 (4): 1063-1073.
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The appendices listed below are included in the report:

- Cone Penetration Test Summary and Standard Cone Penetration Test Plots
- Advanced Cone Penetration Test Plots with I_c , $S_u(Nkt)$ and $N1(60)$
- Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots

Cone Penetration Test Summary and Standard Cone Penetration Test Plots



Job No: 16-56048
Client: Roux Associates Inc.
Project: SLO County Airport
Start Date: 27-Jul-2016
End Date: 27-Jul-2016

CONE PENETRATION TEST SUMMARY

Sounding ID	File Name	Date	Cone	Assumed Phreatic Surface ¹ (ft)	Final Depth (ft)	Northing ² (m)	Easting (m)	Refer to Notation Number
CPT-01	16-56048_CP01	27-Jul-2016	391:T1500F15U500		23.13	3901744	714759	3
CPT-02	16-56048_CP02	27-Jul-2016	443:T1500F15U500		22.97	3901725	714815	3
CPT-03	16-56048_CP03	27-Jul-2016	443:T1500F15U500		27.72	3901691	714867	3
CPT-04	16-56048_CP04	27-Jul-2016	391:T1500F15U500		40.52	3901660	714912	3
CPT-05	16-56048_CP05	27-Jul-2016	443:T1500F15U500		44.62	3901623	714972	3

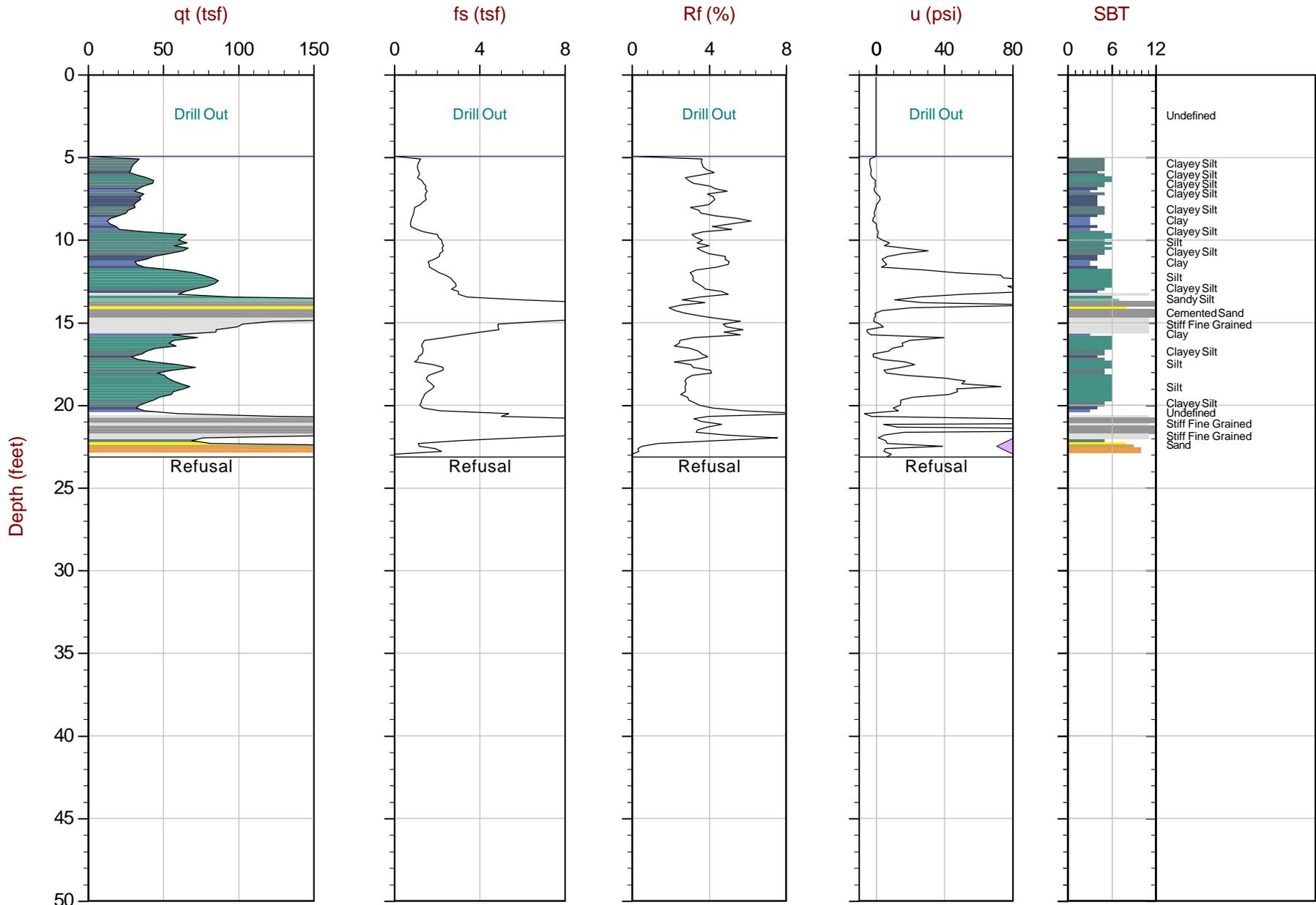
1. Phreatic surface determined from pore pressure dissipation tests unless otherwise noted. Hydrostatic conditions were assumed for the interpretation tables.
2. Coordinates were collected with a consumer grade GPS device with datum NAD83/ UTM Zone 10 North.
3. No phreatic surface detected.



Roux Associates Inc.

Job No: 16-56048
 Date: 07:27:16 08:59
 Site: San Luis Obispo, CA

Sounding: CPT-01
 Cone: 391:T1500F15U500



Max Depth: 7.050 m / 23.13 ft
 Depth Inc: 0.050 m / 0.164 ft
 Avg Int: Every Point

File: 16-56048_CP01.COR
 Unit Wt: SBT Zones

SBT: Robertson and Campanella, 1986
 Coords: UTM 10NN: 3901744 E: 714759

● Equilibrium Pore Pressure (Ueq)
 ● Assumed Ueq
 ◀ Dissipation, Ueq achieved
 ◀ Dissipation, Ueq not achieved
 — Hydrostatic Line

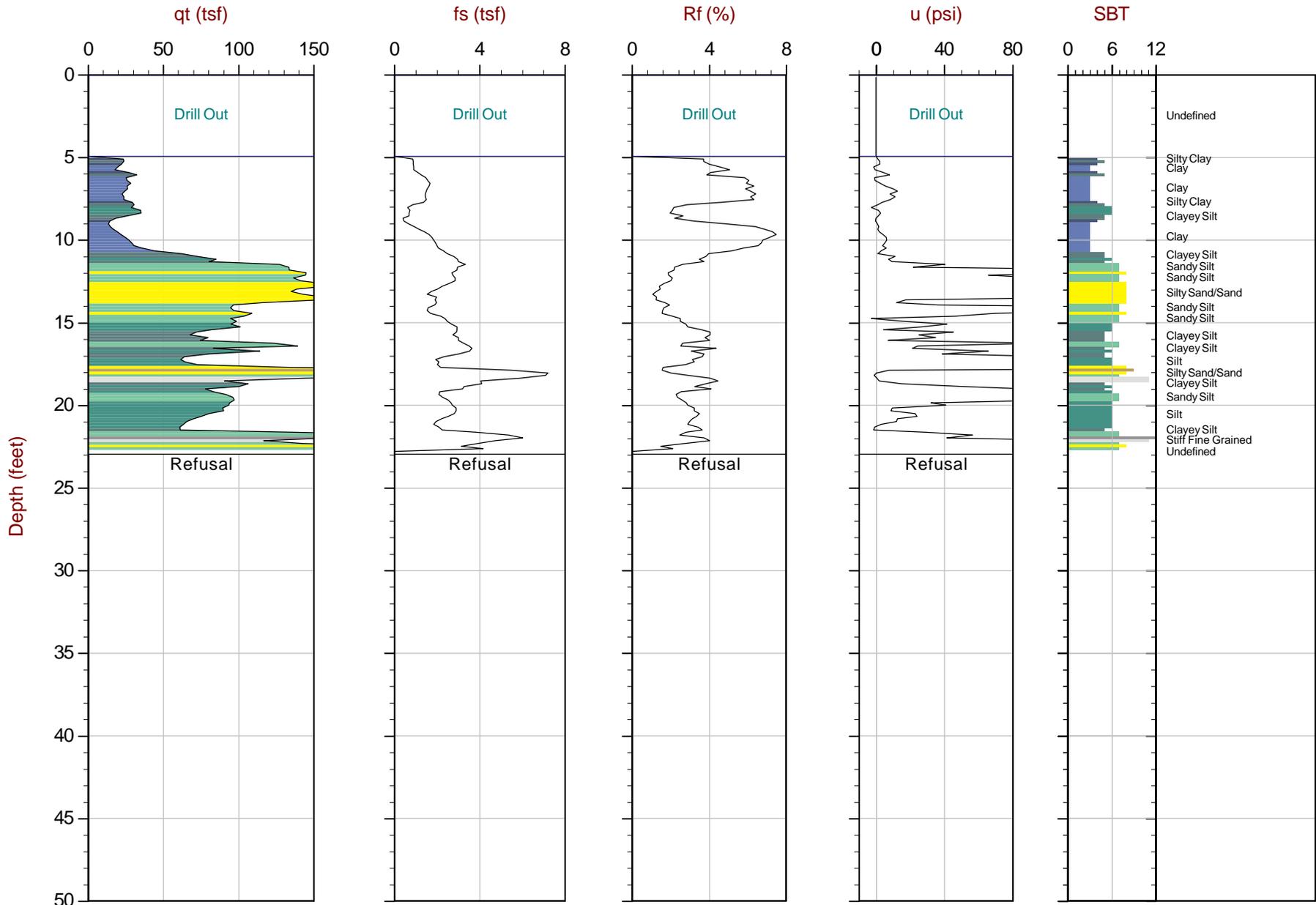
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Roux Associates Inc.

Job No: 16-56048
 Date: 07:27:16 14:06
 Site: San Luis Obispo, CA

Sounding: CPT-02
 Cone: 443:T1500F15U500

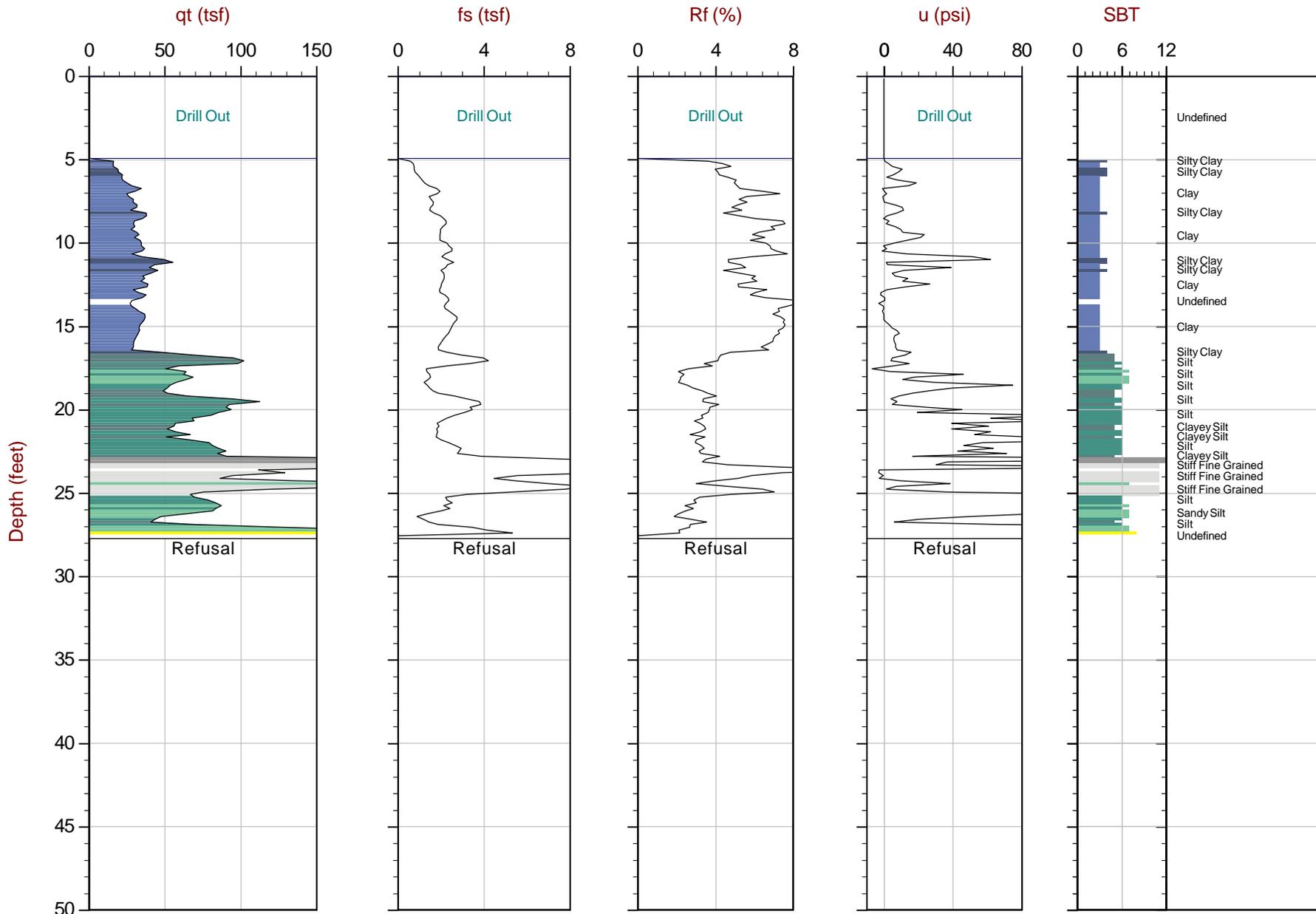


Max Depth: 7.000 m / 22.97 ft
 Depth Inc: 0.050 m / 0.164 ft
 Avg Int: Every Point

File: 16-56048_CP02.COR
 Unit Wt: SBT Zones

SBT: Robertson and Campanella, 1986
 Coords: UTM 10NN: 3901725 E: 714815

● Equilibrium Pore Pressure (Ueq)
 ● Assumed Ueq
 ◀ Dissipation, Ueq achieved
 ◀ Dissipation, Ueq not achieved
 — Hydrostatic Line
 The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Max Depth: 8.450 m / 27.72 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: Every Point

File: 16-56048_CP03.COR
Unit Wt: SBT Zones

SBT: Robertson and Campanella, 1986
Coords: UTM 10NN: 3901691 E: 714867

● Equilibrium Pore Pressure (Ueq)
 ● Assumed Ueq
 ◀ Dissipation, Ueq achieved
 ◀ Dissipation, Ueq not achieved
 — Hydrostatic Line

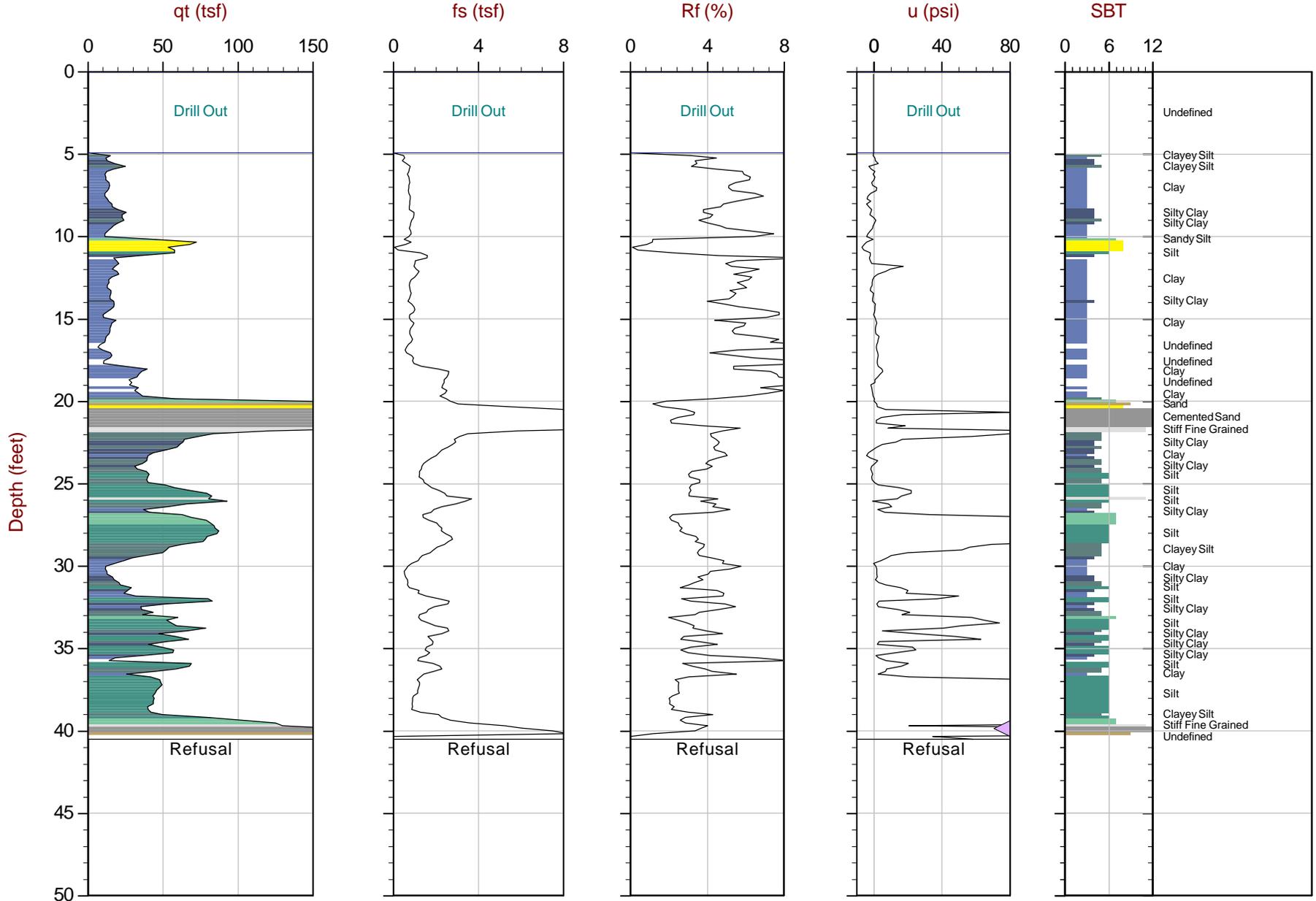
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Roux Associates Inc.

Job No: 16-56048
 Date: 07:27:16 11:27
 Site: San Luis Obispo, CA

Sounding: CPT-04
 Cone: 391:T1500F15U500



Max Depth: 12.350 m / 40.52 ft
 Depth Inc: 0.050 m / 0.164 ft
 Avg Int: EveryPoint

File: 16-56048_CP04.COR
 Unit Wt: SBT Zones

SBT: Robertson and Campanella, 1986
 Coords: UTM 10NN: 3901660 E: 714912

● Equilibrium Pore Pressure (Ueq)
 ● Assumed Ueq
 ◀ Dissipation, Ueq achieved
 ◀ Dissipation, Ueq not achieved
 — Hydrostatic Line

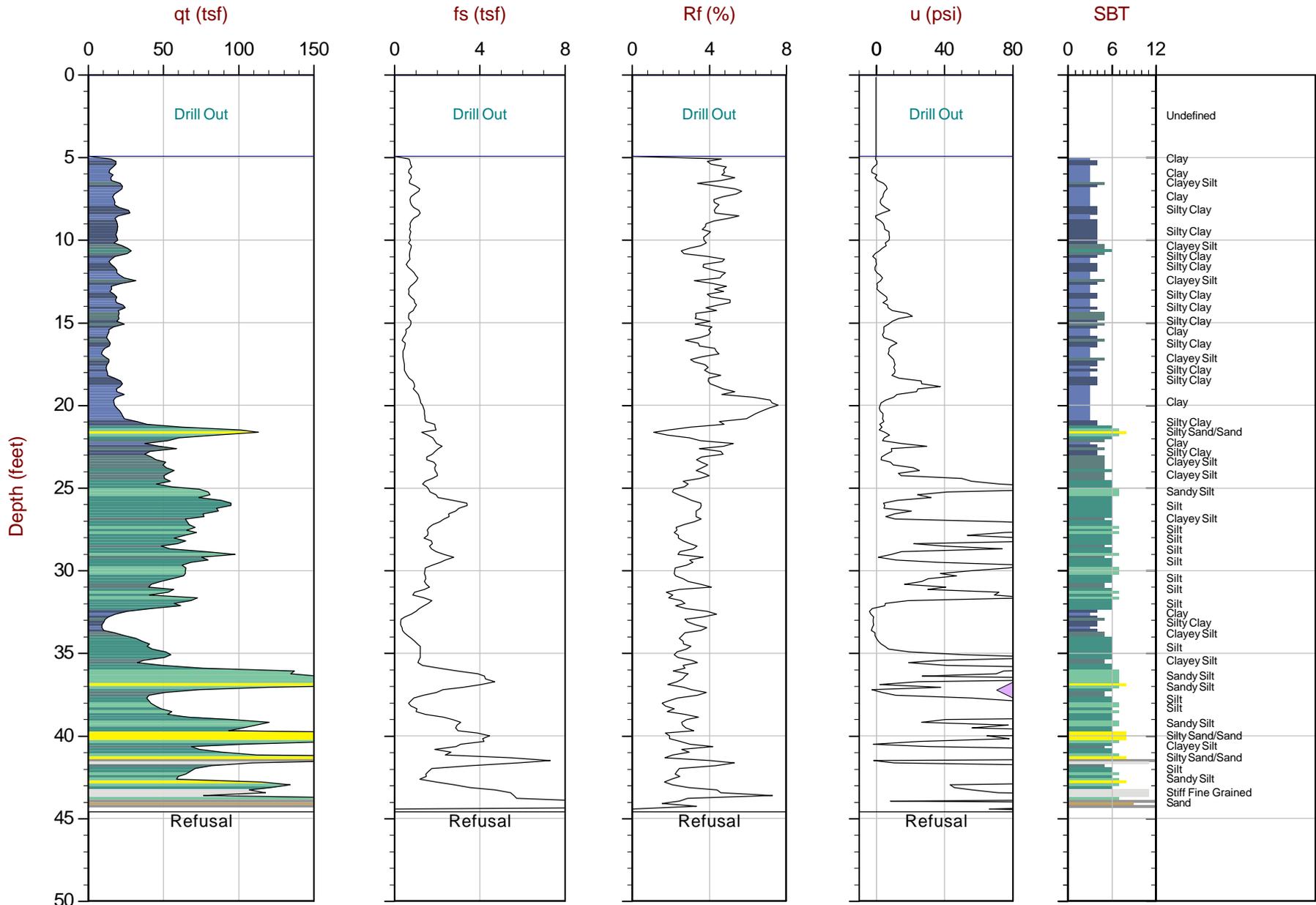
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Roux Associates Inc.

Job No: 16-56048
 Date: 07:27:16 12:39
 Site: San Luis Obispo, CA

Sounding: CPT-05
 Cone: 443:T1500F15U500



Max Depth: 13.600 m / 44.62 ft
 Depth Inc: 0.050 m / 0.164 ft
 Avg Int: EveryPoint

File: 16-56048_CP05.COR
 Unit Wt: SBT Zones

SBT: Robertson and Campanella, 1986
 Coords: UTM 10NN: 3901623 E: 714972

● Equilibrium Pore Pressure (Ueq)
 ● Assumed Ueq
 ◀ Dissipation, Ueq achieved
 ◀ Dissipation, Ueq not achieved
 — Hydrostatic Line
 The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

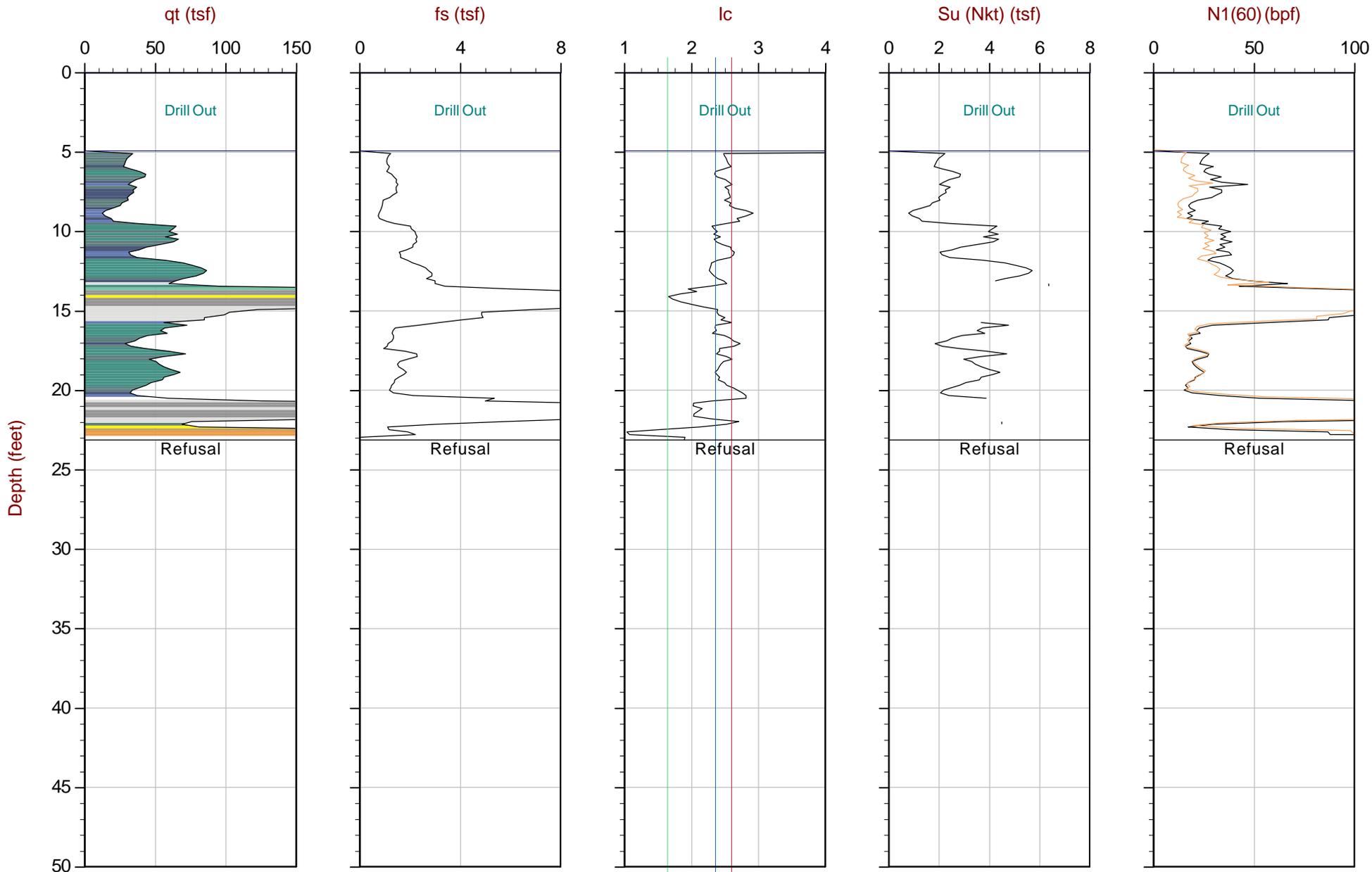
Advanced Cone Penetration Test Plots with I_c , $S_u(N_{kt})$ and $N_{1(60)}$



Roux Associates Inc.

Job No: 16-56048
Date: 07:27:16 08:59
Site: San Luis Obispo, CA

Sounding: CPT-01
Cone: 391:T1500F15U500



Max Depth: 7.050 m / 23.13 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: EveryPoint
— N(60) (bpf)

File: 16-56048_CP01.COR
Unit Wt: SBT Zones
Su Nkt: 15.0

SBT: Robertson and Campanella, 1986
Coords: UTM 10NN: 3901744 E: 714759

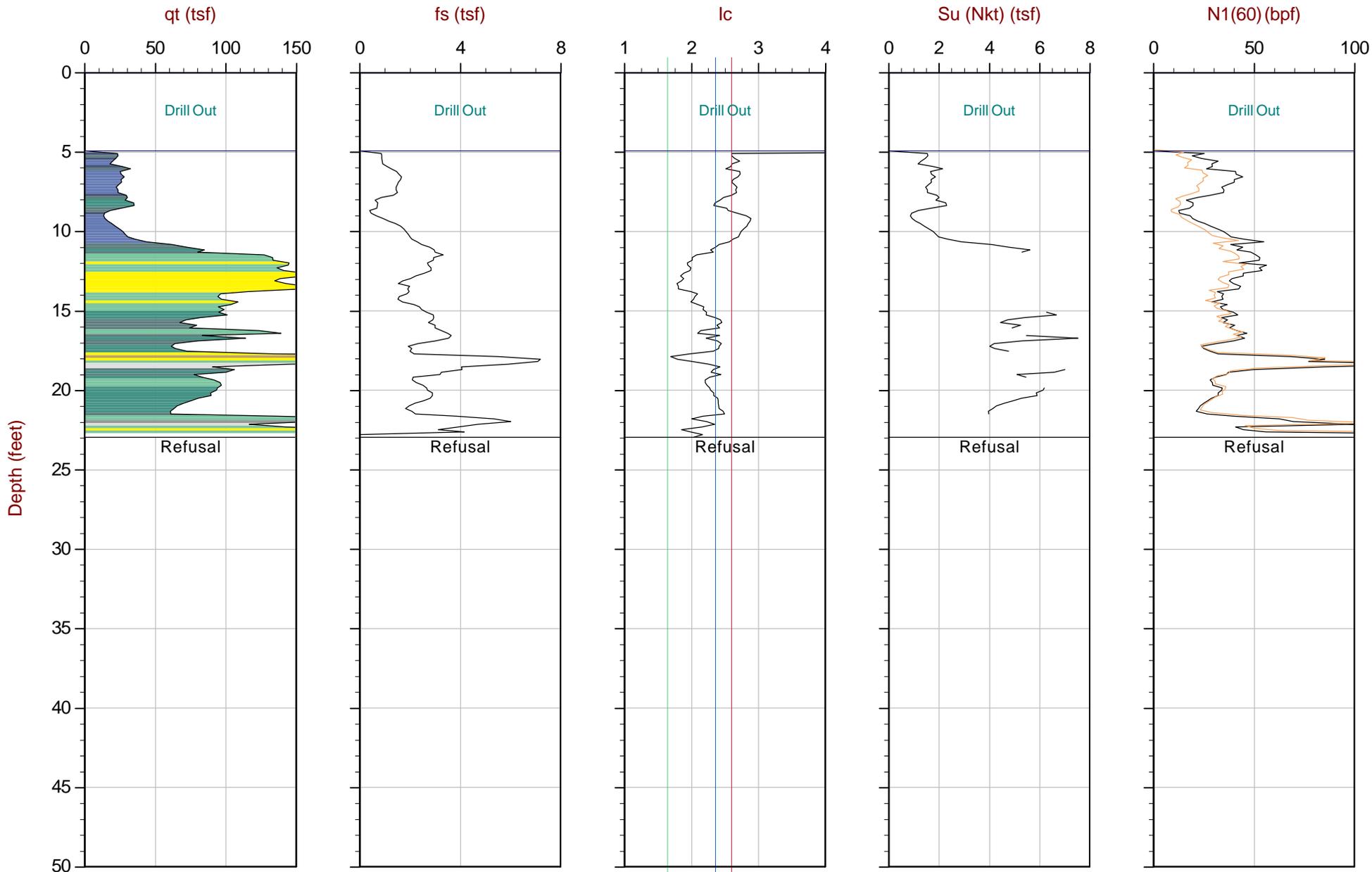
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Roux Associates Inc.

Job No: 16-56048
Date: 07:27:16 14:06
Site: San Luis Obispo, CA

Sounding: CPT-02
Cone: 443:T1500F15U500



Max Depth: 7.000 m / 22.97 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: EveryPoint
— N(60) (bpf)

File: 16-56048_CP02.COR
Unit Wt: SBT Zones
Su Nkt: 15.0

SBT: Robertson and Campanella, 1986
Coords: UTM 10NN: 3901725 E: 714815

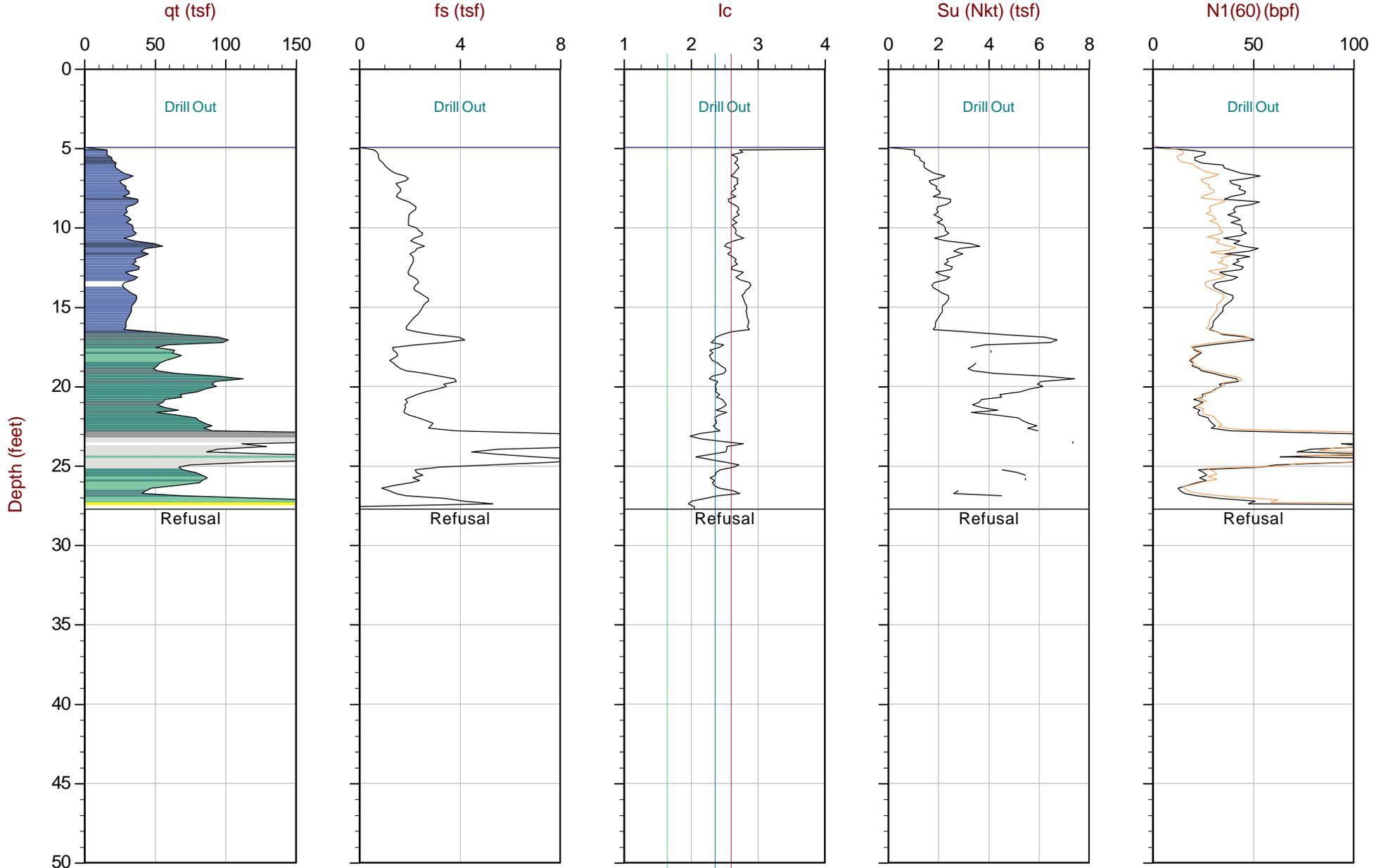
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Roux Associates Inc.

Job No: 16-56048
Date: 07:27:16 13:29
Site: San Luis Obispo, CA

Sounding: CPT-03
Cone: 443:T1500F15U500



Max Depth: 8.450 m / 27.72 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: EveryPoint
— N(60) (bpf)

File: 16-56048_CP03.COR
Unit Wt: SBT Zones
Su Nkt: 15.0

SBT: Robertson and Campanella, 1986
Coords: UTM 10NN: 3901691 E: 714867

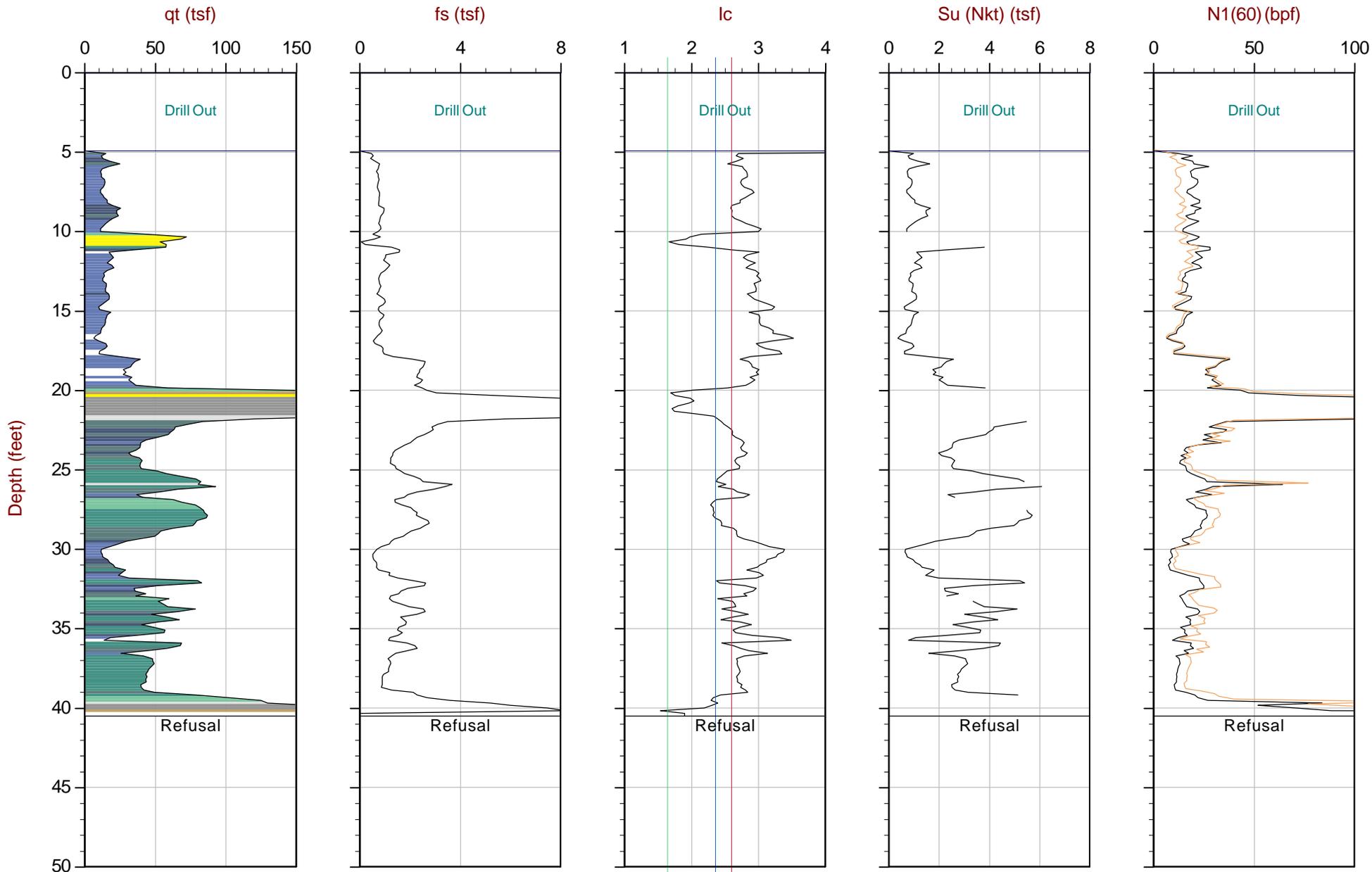
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Roux Associates Inc.

Job No: 16-56048
Date: 07:27:16 11:27
Site: San Luis Obispo, CA

Sounding: CPT-04
Cone: 391:T1500F15U500



Max Depth: 12.350 m / 40.52 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: EveryPoint
— N(60) (bpf)

File: 16-56048_CP04.COR
Unit Wt: SBT Zones
Su Nkt: 15.0

SBT: Robertson and Campanella, 1986
Coords: UTM 10NN: 3901660 E: 714912

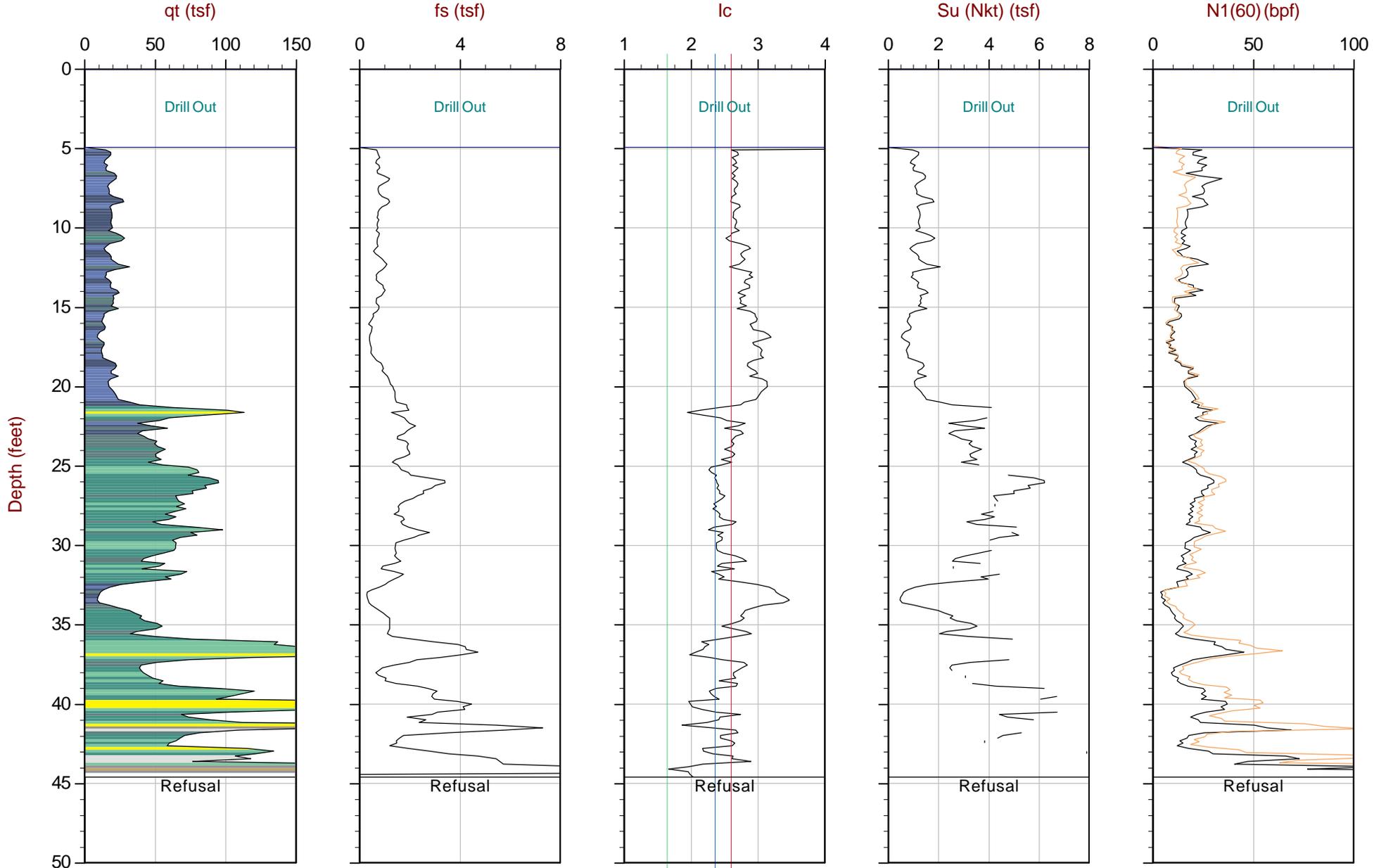
The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



Roux Associates Inc.

Job No: 16-56048
Date: 07:27:16 12:39
Site: San Luis Obispo, CA

Sounding: CPT-05
Cone: 443:T1500F15U500



Max Depth: 13.600 m / 44.62 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: EveryPoint
— N(60) (bpf)

File: 16-56048_CP05.COR
Unit Wt: SBT Zones
Su Nkt: 15.0

SBT: Robertson and Campanella, 1986
Coords: UTM 10NN: 3901623 E: 714972

The reported coordinates were acquired from consumer grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots



Job No: 16-56048
Client: Roux Associates Inc.
Project: SLO County Airport
Start Date: 27-Jul-2016
End Date: 27-Jul-2016

CPT_u PORE PRESSURE DISSIPATION SUMMARY

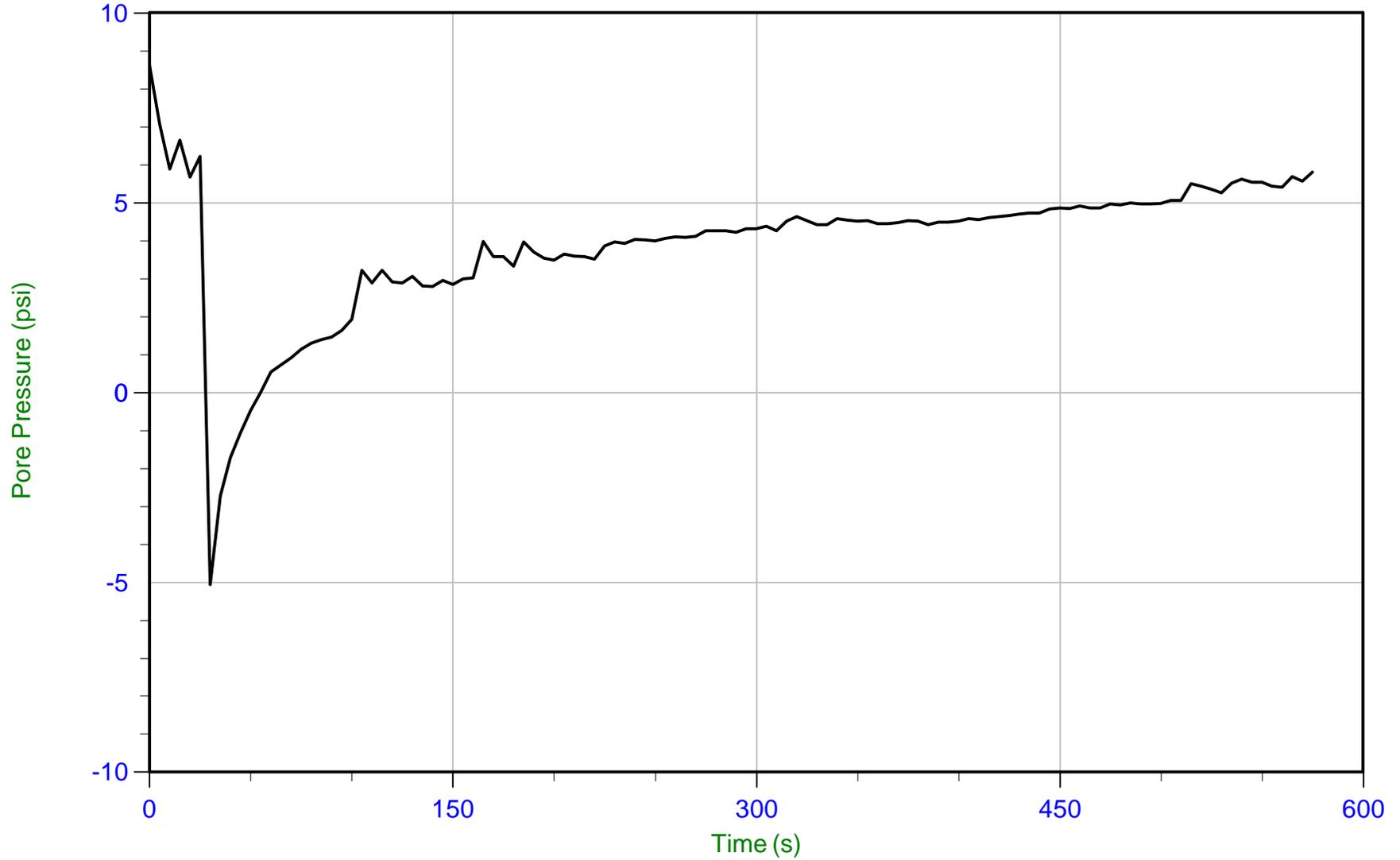
Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (ft)	Estimated Equilibrium Pore Pressure U _{eq} (psi)	Calculated Phreatic Surface (ft)
CPT-01	16-56048_CP01	15	575	22.5	Not Achieved	
CPT-04	16-56048_CP04	15	260	39.9	Not Achieved	
CPT-05	16-56048_CP05	15	200	37.2	Not Achieved	



Roux Associates Inc.

Job No: 16-56048
Date: 07/27/2016 08:59
Site: San Luis Obispo, CA

Sounding: CPT-01
Cone: 391:T1500F15U500
Cone Area: 15 sq cm



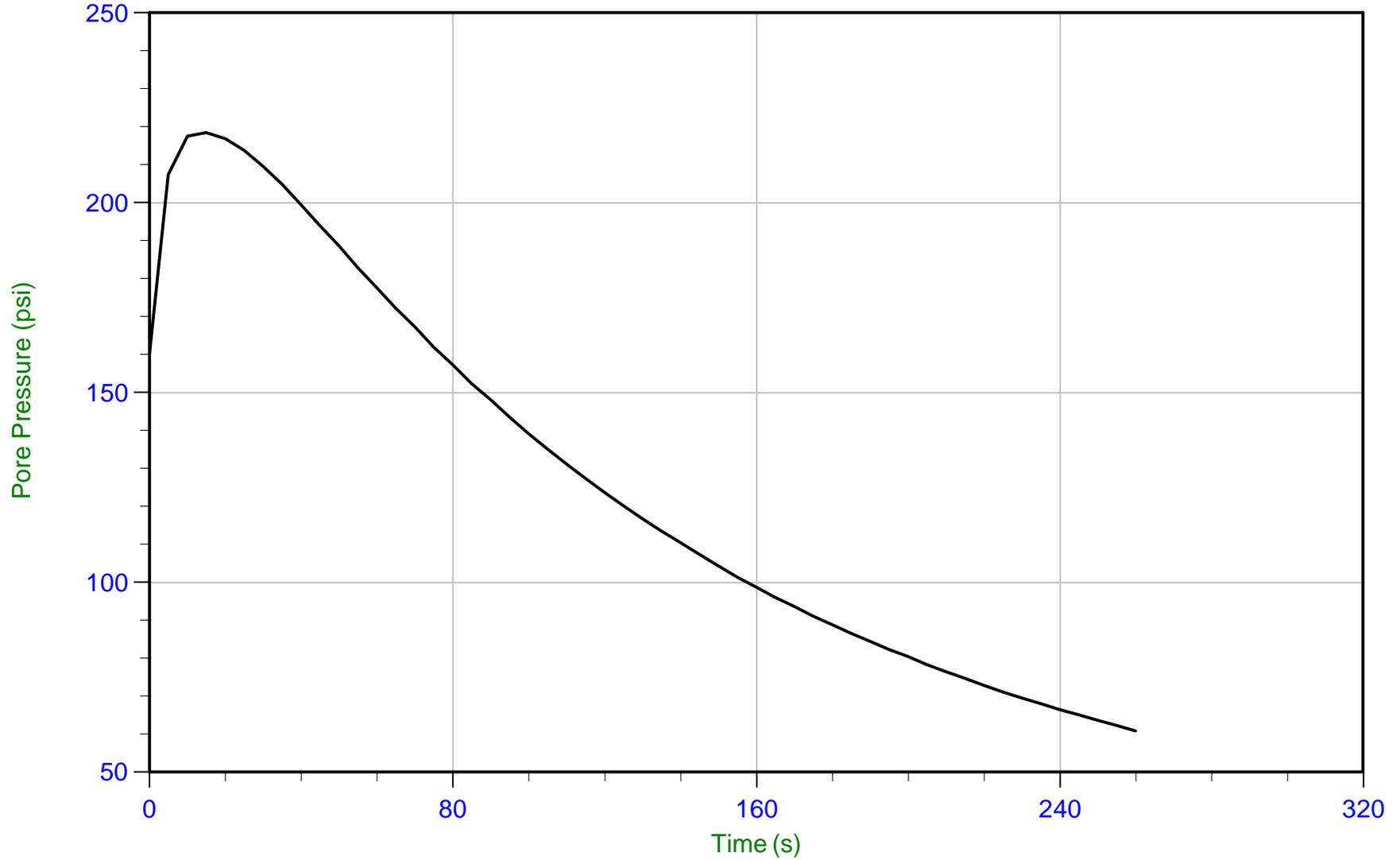
Trace Summary: Filename: 16-56048_CP01.PPF U Min: -5.1 psi
Depth: 6.850 m / 22.473 ft U Max: 8.6 psi
Duration: 575.0 s



Roux Associates Inc.

Job No: 16-56048
Date: 07/27/2016 11:27
Site: San Luis Obispo, CA

Sounding: CPT-04
Cone: 391:T1500F15U500
Cone Area: 15 sq cm



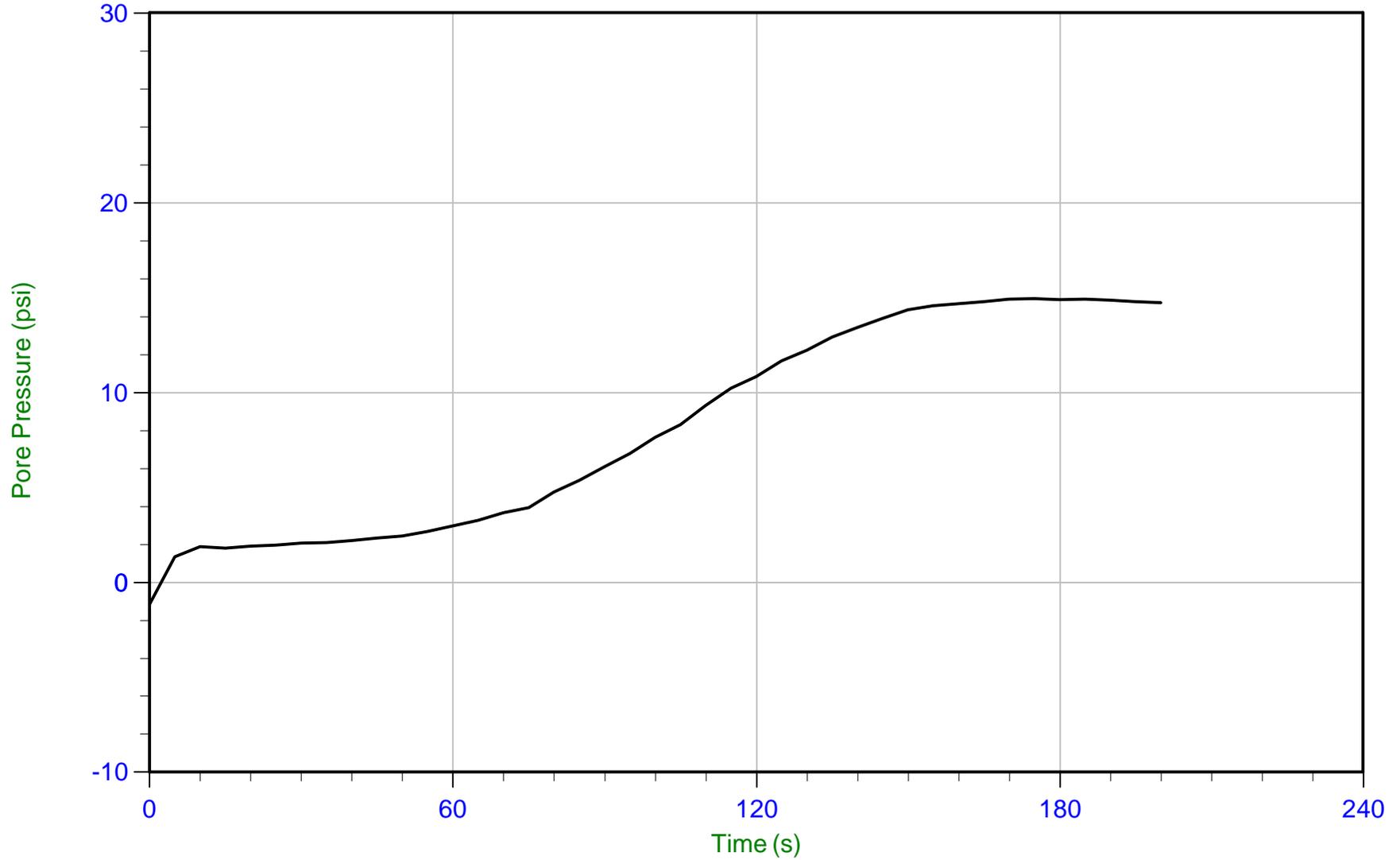
Trace Summary: Filename: 16-56048_CP04.PPF U Min: 60.9 psi
Depth: 12.150 m / 39.862 ft U Max: 218.5 psi
Duration: 260.0 s



Roux Associates Inc.

Job No: 16-56048
Date: 07/27/2016 12:39
Site: San Luis Obispo, CA

Sounding: CPT-05
Cone: 443:T1500F15U500
Cone Area: 15 sq cm



Trace Summary: Filename: 16-56048_CP05.PPF U Min: -1.2 psi
Depth: 11.350 m / 37.237 ft U Max: 14.9 psi
Duration: 200.0 s

Sampling Logs

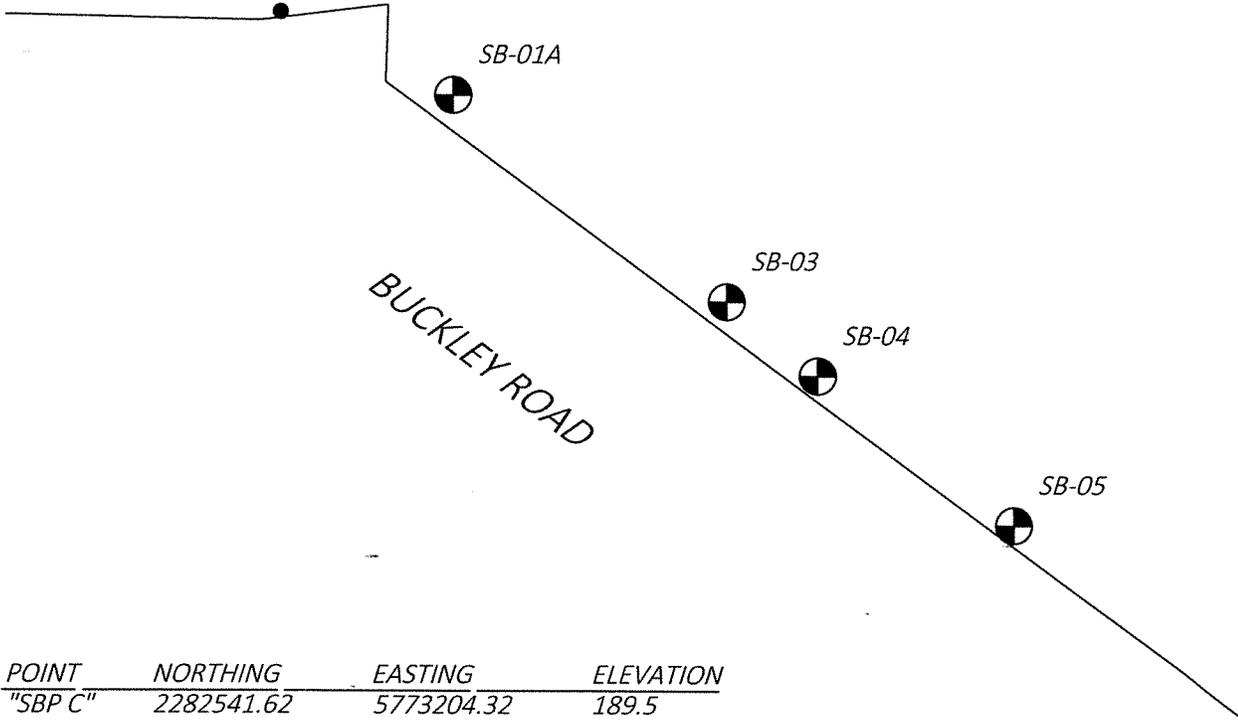
Monitoring Well Form			Date Well Set: 8/26/16	Date of Sampling: 8/27/16
Project Name: SLD County			Sampling Method: Pump	Screen Type: Slotted
Casing Volumes:	2"=0.16 g/ft	3"=0.36 g/ft	4"=0.65 g/ft	6"=1.5 g/ft
$(0.39 \text{ g/ft} \times 7.7 \text{ ft}) + (7.7 \text{ ft} \times 0.16 \text{ g/ft}) = 4.2 \text{ gallons}$				
Well No.: SB-03-41	Diameter: 4" BH, 2" PVC			Total Casing: 55'
Water Column: 55.2 - 47.5 = 7.7'	Sample Time: 0910			Sandpack: 46' - 33' BGS
Water Depth: 47.5' BTOC	Casing Volume: 7.7 ft x 0.16 gal/ft = 1.23 gal			Bentonite Seal: 33' - 31' BGS
Total Depth: 46' BGS	Purge Volume: 4.2 gal x 3 = 12.6 gal			Well Interval: 46' - 36' BGS

	Time	Notes	Water Level (feet BTOC)	Volume Pumped (gallons)	Water Temp (C)	Water pH	Water Cond. (mS/cm)	Water Turbid. (NTU)
8/26	1735	Pre install	47.5 - 42.5	w/ 5' lower casing				
	1814	Bailing	40.22					
	1830		42.78	2 gal	22.67	6.89	5.35	-
	1831		42.88					
	1832		42.22	2.5 gal ~ 12 bailers				
8/27	0723		39.61					
	0756	Pump in						
	0803	Pump on						
	0804		43.7		16.68	6.33	5.21	0.0
	0805	Flow rate decreased 45		1 gal	18.01	6.71	5.15	>800
	0806		45.2		17.77	6.94	5.33	>800
	0806		45.5	2 gal	17.66	7.04	5.85	>800
	0807		45.55					
	0807	Top of pump/ No NTU	45.7	-				
	0808			2.5 gal	17.33	7.12	5.86	0.0
	0809			3 gal				
	0811				17.16	7.06	4.91	>800
	0812			4 gal	17.13	7.08	5.00	796
	0813	Dry		6.5 gal				
	0814		45.4	total				
	0814		45.4					
	0816		44.8					
	0817		44.5					
	0818		44.1					
	0820		43.5					
	0821		43.3					
	0823		43.0					
	0825		42.5					
	0828		42.0					
	0830		41.7					
	0830	Pump on						
	0831				16.50	7.56	5.22	0.0
	0832		44.0		16.70	7.18	4.89	>800
	0834		44.25					
	0835			7.5 gal				
	0836		44.9					
	0839			8.5 gal				
	0842	Top of pump						
	0843			9.5 gal	17.04	7.01	4.95	363
	0848			10.5 gal	17.05	7.01	4.92	318

Survey Data

SAN LUIS OBISPO REGIONAL AIRPORT

AIRPORT PRIMARY CONTROL STATION
"SBP C" (PID: AA4511)



POINT	NORTHING	EASTING	ELEVATION
"SBP C"	2282541.62	5773204.32	189.5
"SBP E"	2282814.39	5770439.90	160.1
SB-01A	2282451.25	5773393.12	189.82
SB-03	2282226.53	5773692.98	183.80
SB-04	2282145.70	5773793.18	181.62
SB-05	2281983.24	5774008.71	180.51

SURVEYOR'S STATEMENT

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY AT THE REQUEST OF ROUX ASSOCIATES, SEPT., 2016.

[Signature] 9/23/2016
 JOSHUA J. FORD P.L.S. 9078 DATE

NOTES

COORDINATES: CALIFORNIA STATE PLANE COORDINATES, NAD83(2011) EPOCH 2010.00, ZONE V, US FEET.

BASIS OF BEARINGS: BETWEEN FOUND NGS MONUMENTS, "SBP C" (PID: AA4511) AND "SBP E" (PID: DF4281), BEING N84°21'53"W.

BENCHMARK: NGS BRASS CAP, "SBP C" (PID: AA4511) HAVING AN NAVD88 ELEVATION OF 189.5' PER NGS DATASHEET.



PRAXIS
 Ideas into Action

Praxis Consolidated International, Inc.
 205 Suburban Road, Suite 1
 San Luis Obispo, CA 93401
 (805) 489-9900

**SLO AIRPORT
 BORE HOLE LOCATIONS**

DATE: Sep 23, 2016
DRAWN BY: JJF
CHECKED BY: JJF
SCALE: 1" = 200'
SHEET: 1 OF 1

Boring Logs



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

5150 E. Pacific Coast Highway, Suite 450
Long Beach, California 90804
Telephone: (310) 879 - 4900

BORING LOG

WELL NO. SB-01	NORTHING 2282541.62	EASTING 5773204.32
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California
DRILLING CONTRACTOR/DRILLER Cascade Drilling, L.P.		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 6-inch	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Rotosonic
CASING MAT./DIA. N/A / N/A	SCREEN: TYPE N/A	SAMPLING METHOD 4" Core Barrel
ELEVATION OF: (Feet)	GROUND SURFACE 189.82	START-FINISH DATE 7/25/16-7/26/16
TOTAL LENGTH ft		GRAVEL PACK SIZES
DIA. N/A		SLOT SIZE

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
	Concrete	Unpaved surface			Hand auger to 6-ft bgs
5	Backfill with bentonite grout	CLAY (CL): brown (10YR/4/3), moist, soft, med-high plasticity; few Sand, fine. (95% F, 5% S, 0% G) @ 6': yellowish brown (10YR/5/6), med plasticity. @ 8': trace organic material.		0.0	100% recovery 6 to 113-ft bgs. Continuous boring
10		SILT (ML): yellowish brown (10YR/5/4), moist, firm, low-med plasticity. (100% F, 0% S, 0% G)		0.0	
15		CLAY (CL): yellowish brown (10YR/5/4), moist, firm, med-high plasticity, few caliche. (100% F, 0% S, 0% G) @ 13': ~3 layer of caliche fragments. @ 14': few Gravel, fine (up to 1/4") (serpentine), subrounded. (95% F, 0% S, 5% G) @ 15': light yellowish brown (10YR/6/4), dry, hard. (100% F, 0% S, 0% G) @ 17': yellowish brown (10YR/5/4), med plasticity. @ 17.5': trace caliche. @ 18.5': few coarse Sand. (95% F, 5% S, 0% G)		0.0	
20		SILT (ML): yellowish brown (10YR/5/4), moist, hard, low plasticity, trace caliche. (100% F, 0% S, 0% G)		0.0	

BORING/FEET SLO BORING LOGS.GPJ ROUX.GDT 10/4/16



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

5150 E. Pacific Coast Highway, Suite 450
Long Beach, California 90804
Telephone: (310) 879 - 4900

BORING LOG

WELL NO. SB-01	NORTHING 2282541.62	EASTING 5773204.32
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
25		CLAY (CL): very pale brown (10YR/8/2), dry, very hard, high plasticity. (100% F, 0% S, 0% G)			
		SILT (ML): yellowish brown (10YR/5/4), moist, hard, low plasticity, trace caliche; few Gravel, fine (up to 1/2"), subrounded. (95% F, 0% S, 5% G)			
		CLAY with Gravel (CL): dark yellowish brown (10YR/4/6) with green, red, and black mottle, moist, hard; little Gravel, fine-coarse (up to 3'), subrounded; weathered serpentinite gravels observed. (75% F, 0% S, 25% G)		0.0	
		Silty SAND with Gravel (SM): brownish yellow (10YR/6/6), moist, fine-coarse, well graded; some Gravel, fine-coarse (up to 3"), subrounded. (15% F, 55% S, 30% G)			
		SILT (ML): yellowish brown (10YR/5/4), moist, soft, low plasticity; trace Sand, fine. (97% F, 3% S, 0% G)			
30		CLAY (CL): very pale brown (10YR/8/2), dry, very hard, high plasticity. (100% F, 0% S, 0% G)			
		SAND with Silt and Gravel (SP): light yellowish brown (10YR/6/4), moist, fine, poorly graded; some Gravel, fine-coarse (up to 2"), subrounded. (10% F, 60% S, 30% G)		0.0	
		CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med plasticity; few Sand, fine-med. (95% F, 5% S, 0% G)			
		@ 33': CLAY with Gravel (CL): dry, very hard; little Gravel, fine (up to 3/4"), subrounded. (80% F, 5% S, 15% G)			
35		@ 34.5': CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med plasticity; few Sand, fine-med. (95% F, 5% S, 0% G)		0.0	
		SAND (SP): yellowish brown (10YR/5/6), moist, fine, poorly graded; few Silt; few Gravel, fine (up to 1/2"), subrounded. (10% F, 85% S, 5% G)			
		CLAY with Gravel (CL): dark yellowish brown (10YR/4/6) with green, red, and black mottle, moist, hard, med plasticity; little Gravel, fine (up to 1/2"), subrounded; weathered serpentinite gravels observed; few Sand, fine-med. (65% F, 10% S, 25% G)		0.0	
		Silty SAND (SM): dark yellowish brown (10YR/4/6), moist, fine, poorly graded. (20% F, 80% S, 0% G)			
		@ 43': trace Sand, coarse; trace caliche. (20% F, 80% S, 0% G)			
		SILT (ML): dark yellowish brown (10YR/4/6), moist, hard, low plasticity; few Sand, fine; trace caliche. (95% F, 5% S,			
45					

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Backfill with bentonite grout.



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BORING LOG

WELL NO. SB-01	NORTHING 2282541.62	EASTING 5773204.32
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		0% G		0.0	
		@ 48': dry, very hard.			
50		Silty SAND (SM): dark yellowish brown (10YR/4/6), moist, fine-med, poorly graded; few Gravel, fine (up to 1/2"), subrounded. (15% F, 75% S, 10% G)		0.0	Static GW at 49-ft bgs
		CLAY (CL): light yellowish brown (10YR/5/4), dry, hard, med plasticity; little Sand, fine. (85% F, 15% S, 0% G)			
	Backfill with bentonite grout	@ 53': Gravelly CLAY (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; some Gravel, fine-coarse (up to 1"), subrounded; little Sand, fine-med. (60% F, 15% S, 25% G)			
55		@ 55.5': CLAY with Sand: (CL) yellowish brown (10YR/5/4), moist, hard, med plasticity; little Sand, fine. (80% F, 20% S, 0% G)		0.0	
		@ 57': CLAY (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; few Sand, fine. (95% F, 5% S, 0% G)			
		@ 57.5': few Gravel, fine-coarse (up to 2"), subrounded. (90% F, 5% S, 5% G)			
		@ 59': high plasticity. (100% F, 0% S, 0% G)			
60		SAND (SP): yellowish brown (10YR/5/4), moist, fine, poorly graded. (5% F, 95% S, 0% G)		0.0	
		@ 64': SAND with Gravel (SP): yellowish brown (10YR/5/4), moist, fine, poorly graded; little Gravel, fine-coarse (up to 2"), subrounded; weathered serpentinite gravels observed. (5% F, 70% S, 25% G)			
		CLAY (CL): very pale brown (10YR/8/4), dry, very hard, consolidated with visible coarse sand grains. (90% F, 10% S, 0% G)			
65		Silty SAND (SM): light yellowish brown (10YR/6/4), saturated, fine, poorly graded. (30% F, 70% S, 0% G)		0.0	Difficult drilling at 65-ft bgs
					First-encountered GW at 68-ft bgs. Saturated zone 68 to 69.5-ft bgs

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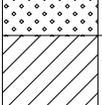
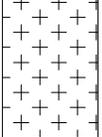
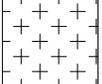


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WELL NO. SB-01	NORTHING 2282541.62	EASTING 5773204.32
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
70		SAND (SP): yellowish brown (10YR/5/4), saturated, fine, poorly graded. (10% F, 90% S, 0% G)		0.0	
		SAND with Gravel (SW): yellowish brown (10YR/5/4), moist, fine-coarse, well-graded; some Gravel, fine-coarse (up to 3"), subrounded; few cobbles (up to 4"), subrounded. (5% F, 65% S, 30% G)			
		CLAY with Gravel (CL): light yellowish brown (10YR/6/4), dry, very hard, consolidated; little Gravel, fine-coarse (up to 3"), subrounded; few cobbles (up to 4"), subrounded. (75% F, 0% S, 25% G)			
		BEDROCK (FRANCISCAN COMPLEX): pulverized by drill casing, dark greenish gray (GLEYS 1/5/1), dry, very hard to consolidated weathered serpentinite, fine-coarse subrounded clasts (up to 3"), clasts consist of chert, microcrystalline volcanics, rhyolite, et al. (25% F, 0% S, 75% G)			Top of bedrock at 73-ft bgs (weathered serpentinite)
75		@ 73.5': moist. @ 74': dry. @ 74.5': moist. @ 75': dry.		0.0	
		@ 77': moist; few cobbles (up to 4"), subrounded; few Sand, coarse. (20% F, 10% S, 70% G)			
		@ 80': dry.			
		@ 83': yellowish brown (10YR/5/4), moist.			
		@ 84': dark greenish gray (GLEYS 1/5/1), dry.			
85		@ 87': moist. @ 87.5': dry.		0.0	
					
					
					
					
					
					
					
					
					
90				0.0	

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PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
95	Backfill with bentonite grout	@ 94': moist.		0.0	
		@ 96': dry.			
100				0.0	
105				0.0	
110	Collapse			0.0	
		SAND with Gravel (SW): dark greenish gray (GLEY1/5/1), moist, fine-coarse, well graded; some Gravel, fine-coarse (up to 3), subrounded; few cobbles (up to 4); few Clay. (5% F, 65% S, 30% G)			
		BEDROCK (FRANCISCAN COMPLEX): pulverized by drill casing, dark greenish gray (GLEY1/5/1), moist, fine-coarse (up to 3), subrounded; some Sand, fine-coarse; few cobbles (up to 4). (15% F, 15% S, 70% G)			
		@ 112.5': dry.			

NOTES: Terminal depth at 113-ft bgs, reached 7/25

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BORING LOG

WELL NO. SB-01A	NORTHING 2282541.62	EASTING 5773204.32
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P. Farrell/J. Chapman	San Luis Obispo, California
DRILLING CONTRACTOR/DRILLER Cascade Drilling, L.P.		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 6-inch	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Rotosonic
CASING MAT./DIA. PVC / 2-inch	SCREEN: TYPE Pre-Packed MAT. PVC	SAMPLING METHOD 4" Core Barrel
ELEVATION OF: (Feet)	GROUND SURFACE 189.82	START-FINISH DATE 8/21/16-8/22/16
TOTAL LENGTH		ft
DIA.		2-inch
SLOT SIZE		
GRAVEL PACK SIZES		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		See SB-01 Log			
5					
10					
15					
20					

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PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P.Farrell/J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		See SB-01 Log (continued)			
25					
30	— PVC Pipe				
35					
40					
45					

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APPROVED BY J. Rohrer	LOGGED BY P. Farrell/J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		See SB-01 Log (continued)			
50		PVC Pipe			
55		Bentonite			
		Sand			
60		Prepack Screen			
		Collapse			
65		Bentonite			Difficult drilling at 65 to 68-ft bgs
		Sand			

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WELL NO. SB-01A	NORTHING 2282541.62	EASTING 5773204.32
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P.Farrell/J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
70		See SB-01 Log (continued)			70

NOTES: After sampling, temporary well equipment was removed from the boring, and boring was backfilled with San Luis Obispo specific mixture of bentonite and neat cement.



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BORING LOG

WELL NO. SB-03	NORTHING 2282226.53	EASTING 5773692.98
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P. Farrell/J. Chapman	San Luis Obispo, California
DRILLING CONTRACTOR/DRILLER Cascade Drilling, L.P.		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 6-inch	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Rotosonic
CASING MAT./DIA. PVC / 2-inch	SCREEN: TYPE Slotted/Pre-pack AT PVC	SAMPLING METHOD 4" Core Barrel
ELEVATION OF: (Feet)	GROUND SURFACE 183.80	START-FINISH DATE 8/26/16-8/29/16
		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Unpaved surface			Hand auger to 6-ft bgs
5					No recovery 0 to 8.5-ft bgs
10		SILT with Sand (ML): yellowish brown (10YR/5/6), moist, hard, low-med plasticity; some Sand, fine; little Clay. (85% F, 15% S, 0% G)		1.4	100% recovery 8.5 to 70-ft bgs. Continuous boring
15		CLAY (CL): light yellowish brown (10YR/6/4), dry, firm, med plasticity; little Sand, fine. (90% F, 5% S, 0% G)			
		SILT (ML): yellowish brown (10YR/5/4), moist, firm, low plasticity; little Clay; weathered serpentinite observed. (100% F, 0% S, 0% G)			
20		CLAY (CL): very pale brown (10YR/7/3), dry, hard, low-med plasticity; little Silt. (100% F, 0% S, 0%G)		0.3	
		@ 17.5': pale brown (10YR/6/3).			
		@ 20': yellowish brown (10YR/5/4), moist, med plasticity; little Sand, fine, poorly graded. (90% F, 10% S, 0% G)		0.3	

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WELL NO. SB-03	NORTHING 2282226.53	EASTING 5773692.98
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P. Farrell/J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		@ 20.5': Sandy CLAY (CL): light yellowish brown (10YR/6/4), dry., very hard, med plasticity; some Sand, fine, poorly graded. (70% F, 30% S, 0% G)			
.....		@ 22': hard.			
.....		@ 23': yellowish brown (10YR/5/4), moist, firm.			
.....		Clayey SAND (SC): yellowish brown (10YR/5/4), moist, fine-coarse, poorly graded; trace Gravel, subangular to subrounded. (20% F, 77% S, 3% G)			
25	PVC Pipe	CLAY (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity. (100% F, 0% S, 0% G)		0.0	25
.....		@ 24.5' light yellowish brown (10YR/6/4), low-med plasticity.			
.....		@ 27': Sandy CLAY with Gravel (CL): yellowish brown (10YR/5/4), moist, hard, low-med plasticity; little Sand, fine, trace coarse, poorly graded; little Gravel, fine (up to 1/2"), subangular-subrounded, includes weathered serpentinite clasts. (70% F, 15% S, 15% G)			
30		@ 28.5': CLAY with Sand: yellowish brown (10YR/5/4), moist, hard, low-med plasticity; few Sand, fine; few Gravel, fine-coarse (up to 1"), angular-subrounded, includes weathered serpentinite. (85% F, 10% S, 5% G)		0.3	30
.....		@ 29.5': CLAY: light yellowish brown (10YR/6/4), moist, hard, med plasticity; few Sand, fine, trace coarse, poorly graded; trace weathered serpentinite clasts. (90% F, 10% S, 0% G)			
.....	Bentonite	@ 33': (95% F, 5% S, 0% G)			
.....					
35	Sand			0.3	35
.....					
.....		Clayey SAND (SC): yellowish brown (10YR/5/6), moist, fine, poorly graded; few Gravel, fine (up to 3/4") subangular-subrounded. (20% F, 70% S, 10% G)			
.....		CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med plasticity; few Sand, fine, trace coarse. (95% F, 5% S, 0% G)			
40	Slotted Screen	Clayey SAND (SC): yellowish brown (10YR/5/6), moist, cemented, fine, poorly graded; few Gravel, fine (up to 3/4") subangular-subrounded. (20% F, 70% S, 10% G)		0.3	40
.....		CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med plasticity; few Gravel, fine (up to 1/2"), subangular-subrounded. (95% F, 0% S, 5% G)			
.....		Clayey SAND (SC): yellowish brown (10YR/5/6), dry, cemented, fine, poorly graded. (20% F, 70% S, 10% G)			
.....		CLAY with Sand (CL): light yellowish brown (10YR/6/4), moist, hard, med plasticity; few Sand, fine, poorly graded; few Gravel, fine			
45					38 to 38.5-ft bgs cemented

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WELL NO. SB-03	NORTHING 2282226.53	EASTING 5773692.98
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P. Farrell/J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		(up to 1/2"), subangular-subrounded. (85% F, 10% S, 5% G) @ 45': some caliche.		0.2	
50	PVC Pipe Bentonite	@ 50': Sandy CLAY (CL): yellowish brown (10YR/5/4), moist, firm, med plasticity; some Sand, fine, poorly graded. (60% F, 40% S, 0% G)		0.5	
	Sand	@ 52': CLAY with Sand (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; little Sand, fine, poorly graded. (75% F, 25% S, 0% G)			
55		Clayey SAND (SC): yellowish brown (10YR/5/6), dry, cemented, fine, poorly graded. (30% F, 70% S, 0% G) CLAY with Sand (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; little Sand, fine, poorly graded. (75% F, 25% S, 0% G)		0.1	54 to 54.5-ft bgs cemented
		Clayey SAND (SC): yellowish brown (10YR/5/6), dry, cemented, fine, poorly graded. (30% F, 70% S, 0% G) CLAY with Sand (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; little Sand, fine, poorly graded. (75% F, 25% S, 0% G)			56 to 56.5-ft bgs cemented
60	Slotted Screen	@ 57.5': CLAY: yellowish brown (10YR/5/6), moist, hard, med plasticity; few Sand, fine, poorly graded. (90% F, 10% S, 0% G) @ 58.5': med-high plasticity. (100% F, 0% S, 0% G) @ 59': CLAY with Gravel (CL): yellowish brown (10YR/5/6), moist, hard, med-high plasticity; little Gravel, fine-coarse (up to 1"), subangular-subrounded, includes weathered serpentinite clasts. (80% F, 5% S, 15% G)		0.0	
		@ 60': Sandy CLAY (CL): yellowish brown (10YR/5/6), moist, firm, med plasticity; some Sand, fine, poorly graded. (70% F, 30% S, 0% G) @ 61.5': Sandy CLAY with Gravel (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; little Sand, fine, poorly graded; little Gravel, fine-coarse (up to 1"), subangular-subrounded, includes weathered serpentinite clasts. (60% F, 25% S, 15% G)			
65	Prepack Screen	SAND with Silt (SM): yellowish brown (10YR/5/6), moist, fine, poorly graded. (10% F, 90% S, 0% G) @ 66.25': trace Gravel, fine, subangular-subrounded. (10% F, 85% S, 5% G)		0.0	
		Clayey SAND (SC): yellowish brown (10YR/5/4), dry, strong cementation, fine-coarse, well graded; few Gravel, fine-coarse (up to 2"), angular-subrounded.			

BORING/FEET SLO BORING LOGS.GPJ ROUX.GDT 10/4/16



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PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P. Farrell/J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
70		(30% F, 60% S, 10% G)			<u>70</u>
				0.0	No recovery 70 to 70.75-ft bgs
					100% recovery 70.75 to 87-ft bgs
					Top of bedrock at 71.5-ft bgs
75	 	Sandy CLAY (CL): yellowish brown (10YR/5/6), moist, very hard, med plasticity; some Sand, fine, poorly graded; few Gravel, fine-coarse (up to 1"), angular-subrounded. (60% F, 30% S, 10% G) BEDROCK (FRANCISCAN COMPLEX): pulverized by drill casing, dark gray (GLE Y1/4/N), dry, strongly cemented, fine-coarse (up to 3"); few Cobbles (up to 4"), subrounded, Gravels and Cobbles consist mostly of serpentinite. (30% F, 0% S, 70% G)			<u>75</u>
	PVC Pipe			0.0	
80	 	BEDROCK (CLAYSTONE): pulverized by drill casing, dark gray (GLE Y1/4/N), dense. BEDROCK (FRANCISCAN COMPLEX): pulverized by drill casing, dark gray (GLE Y1/4/N), dry, strongly cemented, fine-coarse (up to 3"); few Cobbles (up to 4"), subrounded, Gravels and Cobbles consist mostly of serpentinite. (30% F, 0% S, 70% G)			<u>80</u>
				0.0	
85	 				<u>85</u>
				0.0	No recovery 87 to 90-ft bgs
	 	Bentonite Sand			
90		SAND with Clay (SW): dark gray (GLE Y1/4/N), saturated, fine-coarse, well graded. (10% F, 90% S, 0% G)			<u>90</u>
				0.0	100% recovery 90 to 106-ft bgs

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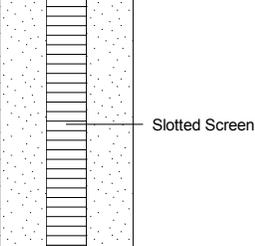
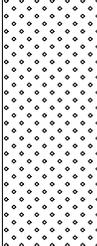
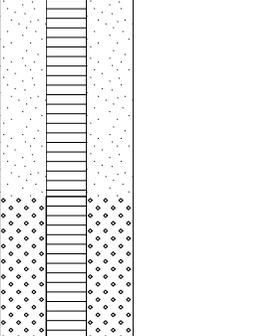
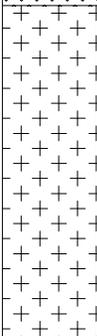
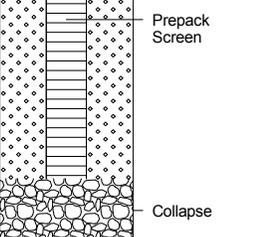
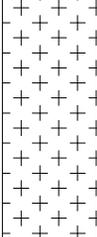


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PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY P. Farrell/J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
95	 Slotted Screen			0.0	
100	 Prepack Screen	 BEDROCK (FRANCISCAN COMPLEX): pulverized by drill casing, dark gray (GLEY1/4/N), dry, strongly cemented, fine-coarse (up to 3"); few Cobbles (up to 4"), subrounded, Gravels and Cobbles consist mostly of serpentinite. (30% F, 0% S, 70% G)		0.0	
105	 Collapse			0.0	

NOTES: After sampling, temporary well equipment was removed from the boring, and boring was backfilled with San Luis Obispo specific mixture of bentonite and neat cement.

Terminal depth at 106-ft bgs



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BORING LOG

WELL NO. SB-04	NORTHING 2282145.7	EASTING 5773793.18
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California
DRILLING CONTRACTOR/DRILLER Cascade Drilling, L.P.		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 6-inch	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Rotosonic
CASING MAT./DIA. PVC / 2-inch	SCREEN: TYPE Slotted/Pre-pack MAT. PVC	SAMPLING METHOD 4" Core Barrel
ELEVATION OF: (Feet)	GROUND SURFACE 181.62	START-FINISH DATE 8/23/16-8/25/16
		TOTAL LENGTH ft DIA. 2-inch SLOT SIZE
		GRAVEL PACK SIZES

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Unpaved surface			Hand auger to 5-ft bgs
5					No recovery 0 to 6-ft bgs
		SILT (ML): yellowish brown (10YR/5/4), moist, soft, low-med plasticity; little Sand, fine; little Clay. (90% F, 10% S, 0% G)			Disturbed cuttings from outer core barrel 6 to 8-ft bgs
		@ 8.5': hard, low plasticity. (100% F, 0% S, 0% G)			100% recovery 8 to 75.5-ft bgs
10	PVC Pipe			0.0	
		CLAY (CL): light yellowish brown (10YR/6/4) mottled with very pale brown, moist, hard, high plasticity. (100% F, 0% S, 0% G)			
		@ 12.5': Sandy CLAY (CL): dark yellowish brown (10YR/4/4), moist, hard, med plasticity; some Sand, fine, trace coarse, poorly graded; little Gravel, fine-coarse (up to 1"), subangular-subrounded; weathered serpentinite observed. (60% F, 30% S, 10% G)			
15		@ 15': light yellowish brown (10YR/6/4), dry, hard-very hard; some Sand, fine, poorly graded. (60% F, 40% S, 0% G)			
		@ 16.5': CLAY with Sand (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; little Sand, fine, poorly graded. (85% F, 15% S, 0% G)			
	Bentonite				
	Sand				
20		@ 18.5': few Gravel, fine (up to 1/4"), subangular-subrounded. (80% F, 15% S, 5% G)			
		@ 20.5': Sandy CLAY (CL): yellowish		0.0	

BORING/FEET SLO BORING LOGS.GPJ ROUX.GDT 10/4/16



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BORING LOG

WELL NO. SB-04	NORTHING 2282145.7	EASTING 5773793.18
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
25		<p>brown (10YR/5/4), moist, soft, med plasticity; some Sand, fine, trace coarse, poorly graded. (70% F, 30% S, 0% G) @ 21.5': hard. @ 21.75': CLAY with Sand (CL): light yellowish brown (10YR/6/4), dry, very hard, med plasticity; little Sand, fine, poorly graded. (75% F, 25% S, 0% G) @ 22.25': CLAY (CL): brown (7.5YR/4/3), moist, hard, med plasticity; few Sand, fine, poorly graded. (95% F, 5% S, 0% G) @ 24.5': firm.</p>			
	Slotted Screen	<p>@ 26': Sandy CLAY (CL): brown (10YR/5/3), moist, hard, med plasticity; some Sand, fine, poorly graded. (60% F, 40% S, 0% G) SAND with Clay (SP): brown (10YR/5/3), moist, fine, poorly graded. (10% F, 90% S, 0% G) CLAY (CL): yellowish brown (10YR/5/4), moist, hard, med-high plasticity; few Sand, fine, trace angular rock fragments. (90% F, 10% S, 0% G) @ 28.5': CLAY with Gravel (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity; little Gravel, fine-coarse (up to 1"), subangular-subrounded, few Sand, fine. (80% F, 5% S, 15% G) @ 29': CLAY with Sand (CL): yellowish brown (10YR/5/4), dry, hard-very hard, med plasticity; little Sand, fine; few Gravel, fine-coarse, subangular-subrounded; weathered serpentinite clasts observed up to 1.5" diam. (75% F, 20% S, 5% G) @ 31': CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med-high plasticity; few Sand, fine. (95% F, 5% S, 0% G)</p>		0.0	
30					
	Bentonite				
	Sand				
35		<p>Clayey SAND (SC): light yellowish brown (10YR/6/4), saturated, fine, poorly graded. (40% F, 60% S, 0% G) @ 36': (30% F, 70% S, 0% G)</p>		1.9	
	Slotted Screen	<p>CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med-high plasticity; few Sand, fine. (95% F, 5% S, 0% G) @ 36': few Gravel, fine (up to 1/2"), subrounded; trace Cobbles, up to 3.5", subangular-subrounded. (95% F, 0% S, 5% G) @ 39.5': light yellowish brown (10YR/6/4), moist, hard, med-high plasticity; few Sand, fine. (95% F, 5% S, 0% G)</p>		0.1	
40		<p>Clayey SAND (SC): light yellowish brown (10YR/6/4), moist, fine, poorly graded. (30% F, 70% S, 0% G) CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med-high plasticity; few Sand, fine. (95% F, 5% S, 0% G)</p>			
	PVC Pipe				
45		@ 44.5': Gravelly CLAY (CL): light			

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BORING LOG

WELL NO. SB-04	NORTHING 2282145.7	EASTING 5773793.18
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
50		<p>yellowish brown (10YR/6/4), moist, hard, med-high plasticity; little Gravel, fine-coarse (up to 3"), subrounded-subangular; few Sand, fine-coarse; weathered serpentinite clasts up to 2" diam. (65% F, 10% S, 25% G)</p> <p>@ 48': Sandy CLAY (CL): yellowish brown (10YR/5/6), moist, hard, med plasticity; some Sand, fine, poorly graded. (70% F, 30% S, 0% G)</p>		0.2	
55		<p>Clayey GRAVEL with Sand (GC): yellowish brown (10YR/5/6), moist, fine-coarse (up to 3"), subangular-subrounded; some Clay, med plasticity; little Sand, fine-coarse, well graded. (35% F, 15% S, 50% G)</p> <p>Sandy CLAY (CL): yellowish brown (10YR/5/6), moist, hard, med plasticity; some Sand, fine, poorly graded. (70% F, 30% S, 0% G)</p> <p>@ 53': Gravelly CLAY (CL): light yellowish brown (10YR/6/4), moist, hard, med plasticity; little Gravel, fine-coarse (up to 3"), subangular-subrounded; few Sand, fine-coarse; weathered serpentinite clasts up to 2" diam. (65% F, 10% S, 25% G)</p>			
60		<p>@ 58': CLAY (CL): yellowish brown (10YR/5/4), moist, hard, med-high plasticity. (100% F, 0% S, 0% G)</p>		0.0	
65		<p>@ 61': Sandy CLAY (CL): brown (10YR/5/3), dry, very hard, med plasticity; some Sand, fine to coarse, poorly graded; few Gravel, fine-coarse, subangular; weathered serpentinite clasts observed. (60% F, 35% S, 5% G)</p> <p>@ 62': moist, hard; some Sand, fine, trace coarse. (70% F, 30% S, 0% G)</p> <p>@ 62.5': Sandy CLAY with Gravel (CL): brown (10YR/5/3), moist, hard, med plasticity; little Sand, fine, poorly graded; little Gravel, fine-coarse, subangular. (60% F, 25% S, 15% G)</p> <p>@ 62.75': CLAY (CL): yellowish brown (10YR/5/4), moist, hard, med plasticity. (100% F, 0% S, 0% G)</p> <p>Clayey SAND (SC): brown (10YR/5/3), moist, fine, poorly graded. (30% F, 70% S, 0% G)</p> <p>CLAY (CL): brown (10YR/5/3), moist, hard, med plasticity; few Sand, fine. (90% F, 10% S, 0% G)</p> <p>@ 67': Sandy CLAY (CL): light yellowish brown (10YR/6/3), dry, very hard; some Sand, fine, poorly graded. (65% F, 35% S,</p>		0.0	

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BORING LOG

WELL NO. SB-04	NORTHING 2282145.7	EASTING 5773793.18
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
70		0% G @ 67.5': CLAY (CL): light brownish gray (2.5Y/6/2) with rust marbling, moist, very hard, med plasticity; few Sand, fine; few Gravel, fine-coarse (up to 3"), subangular-rounded, clasts vary in type and composition (rhyolite, chert, et al.); trace Cobbles (up to 4"), subrounded. (90% F, 5% S, 5% G)		0.0	Top of bedrock at 70-ft bgs. 70 to 82-ft bgs drilled without water. Cores appear to be pulverized bedrock
75		BEDROCK (SILTSTONE/CLAYSTONE): pulverized by drill casing, dark gray (10YR/4/1), dry, very hard, med-high plasticity; little Gravel, fine-coarse, subangular; some cobbles (cores up to 6" long), dense siltstone/claystone. (80% F, 0% S, 20% G) @ 71': moist, hard; core consists of siltstone/claystone chips.			No recovery 75.5 to 77-ft bgs
80		BEDROCK (SILTSTONE/CLAYSTONE): pulverized by drill casing, dark gray (10YR/4/1), moist, hard, med-high plasticity; core consists of siltstone/claystone chips.			100% recovery 77 to 91-ft bgs
85		@ 82': dense; intact core.			At 82-ft bgs, added water while drilling
90		@ 88.5': moist, hard, med-high plasticity; core consists of siltstone/claystone chips.			At 88.5-ft bgs, stopped adding water while drilling

NOTES: After sampling, temporary well equipment was removed from the boring, and boring was backfilled with San Luis Obispo specific mixture of bentonite and neat cement.

Terminal depth at 91-ft bgs

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BORING LOG

WELL NO. SB-05	NORTHING 2281983.24	EASTING 5774008.71
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California
DRILLING CONTRACTOR/DRILLER Cascade Drilling, L.P.		GEOGRAPHIC AREA
DRILL BIT DIAMETER/TYPE 6-inch	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Rotosonic
CASING MAT./DIA. PVC / 2-inch	SCREEN: TYPE Slotted/Pre-pack AT PVC	SAMPLING METHOD 4" Core Barrel
ELEVATION OF: (Feet)	GROUND SURFACE 180.51	START-FINISH DATE 8/30/16-9/1/16
TOTAL LENGTH ft		DIA. 2-inch SLOT SIZE
GRAVEL PACK SIZES		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Unpaved surface			Hand auger to 5-ft bgs
5		CLAY (CL): very pale brown (10YR/7/3), moist, soft, med-high plasticity. (100% F, 0% S, 0% G)			100% recovery 5 to 37-ft bgs
10	PVC Pipe	@ 8': pale brown (10YR/6/3), med plasticity; few Sand, fine, poorly graded. (90% F, 10% S, 0% G) @ 10': yellowish brown (10YR/5/4), firm. (100% F, 0% S, 0% G)		0.3	
15		@ 14': CLAY with Sand (CL): very pale brown (10YR/7/4), moist, soft, low-med plasticity; little Sand, fine, poorly graded. (75% F, 25% S, 0% G) @ 15': CLAY (CL): light yellowish brown (10YR/6/4), moist, firm, low-med plasticity; few Sand, fine, poorly graded. (90% F, 10% S, 0% G)		0.0	
20		@ 20': med plasticity; few Sand, fine, trace coarse; trace gravel, fine (up to 1/2"), angular-subrounded; Gravels and sands		0.4	

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BORING LOG

WELL NO. SB-05	NORTHING 2281983.24	EASTING 5774008.71
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
		include weathered serpentinite. (90% F, 5% S, 5% G)			
25	PVC Pipe	@ 22': CLAY with Gravel (CL): yellowish brown (10YR/5/4), moist, firm, med plasticity; few Sand, fine-coarse; little Gravel, fine-coarse (up to 1"), angular-subrounded; Gravels and Sands include weathered serpentinite. (75% F, 10% S, 15% G)		0.0	
	Bentonite	@ 24': CLAY with Sand (CL): yellowish brown (10YR/5/4), moist, hard, low-med plasticity; little Sand, fine, poorly graded. (80% F, 20% S, 0% G)			
		@ 25': few Gravel, fine (up to 3/4"), subangular-subrounded, includes weathered serpentinite. (75% F, 20% S, 5% G)			
		@ 25.5': CLAY (CL): light yellowish brown (10YR/6/4), dry, hard, med plasticity. (100% F, 0% S, 0% G)			
		@ 26': yellowish brown (10YR/5/4), moist.			
		@ 27': dry, very hard.			
		@ 28': moist, hard.			
30	Sand	@ 28.5': few Gravel, fine-coarse (up to 1.5"), subangular-subrounded. (95% F, 0% S, 5% G)		0.0	
	Slotted Screen	SAND with Clay (SC): yellowish brown (10YR/5/4), moist, fine, poorly graded; few Gravel, fine (up to 1/2"), subangular-subrounded. (15% F, 80% S, 5% G)			
		@31.5': Clayey SAND: yellowish brown (10YR/5/4), moist, fine, poorly graded; few Gravel, fine-coarse (up to 1"), subangular-subrounded. (30% F, 65% S, 5% G)			
35		Sandy CLAY (CL): pale brown (10YR/6/3), dry, very hard, low-med plasticity; some Sand, fine, poorly graded; few Gravel, fine-coarse (up to 1.5"), subangular-subrounded. (55% F, 40% S, 5% G)			
		@ 34': moist, hard, med plasticity; little Sand, fine, poorly graded. (70% F, 25% S, 5% G)			
		@ 34.5': Cobble (5 diam.), rounded.			No recovery 37 to 38-ft bgs
	Prepack Screen	Clayey GRAVEL with Sand (GC): yellowish brown (10YR/5/4), moist, fine-coarse (up to 2"), subangular-subrounded; little Sand, fine-coarse, well graded; Gravles and Sands include weathered serpentinite clasts. (30% F, 20% S, 50% G)			100% recovery 38 to 43-ft bgs
40		Clayey SAND with Gravel (SC): yellowish brown (10YR/5/4), saturated, fine, poorly graded; little Gravel, fine-coarse (up to 1"), subangular-subrounded; includes weathered serpentinite. (30% F, 50% S, 20% G)			
	Collapse	Clayey GRAVEL with Sand (GC): yellowish brown (10YR/5/4), moist, fine-coarse (up to 2"), subangular-subrounded; little Sand, fine-coarse, well graded; Gravles and Sands include weathered serpentinite clasts. (30% F, 20% S, 50% G)			
		SAND with Clay and Gravel (SC): yellowish brown (10YR/5/6), moist-saturated, fine, poorly graded; some Gravel, fine-coarse (up to 1.5"), subangular-subrounded. (15% F, 60% S, 25% G)			No recovery 43 to 44.5-ft bgs
45		@ 39': moist; some Gravel, fine-coarse (up			100% recovery 44.5 to 76-ft

BORING/FEET SLO BORING LOGS.GPJ ROUX.GDT 10/4/16



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BORING LOG

WELL NO. SB-05	NORTHING 2281983.24	EASTING 5774008.71
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS	
		to 3"), subangular-subrounded. (15% F, 60% S, 25% G) @ 41': Clayey SAND (SC): light yellowish brown (10YR/6/4), dry, fine-coarse, well graded, cemented; little Gravel, fine (up to 1/2"). (20% F, 70% S, 10% G) CLAY (CL): light yellowish brown (10YR/6/4), dry, very hard, med plasticity; little Sand, fine, poorly graded. (90% F, 10% S, 0% G) @ 42': Sandy CLAY (CL): brown (10YR/5/3), dry, hard, med plasticity; little Sand, fine, poorly graded; few Gravel, fine, subangular-subrounded. (75% F, 20% S, 5% G) Sandy CLAY with Gravel (CL): pale brown (10YR/6/3), moist, hard, med plasticity; little Sand, fine, poorly graded; little Gravel, fine (up to 3/4"), subangular-subrounded. (60% F, 25% S, 15% G) @ 45.5': low plasticity; some Sand, fine, poorly graded; little Gravel, fine (up to 1/2"), subangular-subrounded. (45% F, 40% S, 15% G) Clayey SAND with Gravel (SC): pale brown (10YR/6/3), dry, moderately to strongly cemented, fine, trace coarse, poorly graded; some Gravel, fine to coarse (up to 2"), subangular-subrounded. (30% F, 40% S, 30% G) @ 48': Clayey SAND (SC): light yellowish brown (10YR/6/4), dry-moist, fine, poorly graded; few Gravel, fine (up to 1/4"), subangular-subrounded. (40% F, 55% S, 5% G) Sandy CLAY (CL): yellowish brown (10YR/5/4), moist, firm, low plasticity; some Sand, fine, poorly graded. (60% F, 40% S, 0% G) @ 50.5': CLAY (CL): yellowish brown (10YR/5/4), moist, firm, med plasticity; little Sand, fine. (90% F, 10% S, 0% G) Clayey SAND (SC): light yellowish brown (10YR/6/4), dry, fine-coarse, well graded, moderately to strongly cemented; little Gravel, fine (up to 1/4"). (20% F, 70% S, 10% G) CLAY (CL): yellowish brown (10YR/5/4), dry-moist, very hard, med plasticity. (100% F, 0% S, 0% G) @ 55': CLAY with Sand (CL): pale brown (10YR/6/3), dry, very hard, med plasticity; some Sand, fine, poorly graded. (80% F, 20% S, 0% G) @ 57': CLAY (CL): brown (10YR/4/3), moist, hard, med-high plasticity. (100% F, 0% S, 0% G) @ 58': med plasticity; few Gravel, fine (up to 1/2"), subangular. (90% F, 0% S, 10% G) @ 60': firm; few Sand, medium-coarse, poorly graded. (95% F, 5% S, 0% G) @ 62': Sandy CLAY (CL): brown (10YR/5/3), moist, hard, med plasticity; some Sand, fine, trace coarse. (70% F, 30% S, 0% G) @ 63.5': Sandy CLAY with Gravel (CL): brown (10YR/5/3), moist, hard, med plasticity; little Sand, fine, poorly graded; little Gravel, fine-coarse, subangular. (60% F, 20% S, 20% G) @ 63.75': Sandy CLAY (CL): brown (10YR/5/3), moist, hard, med plasticity; some Sand, fine, trace coarse. (70% F, 30% S, 0% G) Clayey SAND (SC): brown (10YR/4/3),		0.2	bgs	
50	PVC Pipe			0.0	50	
55	Bentonite			0.0	55	
60	Sand			0.0	60	
65	Slotted Screen			0.0	65	

BORING/FEET SLO BORING LOGS.GPJ ROUX.GDT 10/4/16



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BORING LOG

WELL NO. SB-05	NORTHING 2281983.24	EASTING 5774008.71
PROJECT NO./NAME 2744.001L002 / County of San Luis Obispo		LOCATION San Luis Obispo Airport
APPROVED BY J. Rohrer	LOGGED BY J. Chapman	San Luis Obispo, California

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
70		moist, fine, poorly graded. (30% F, 70% S, 0% G) Sandy CLAY (CL): brown (10YR/5/3), moist, hard, med plasticity; some Sand, fine, trace coarse. (70% F, 30% S, 0% G) @ 68.5': grayish brown (10YR/5/2), dry, very hard; some Sand, fine, poorly graded. (60% F, 40% S, 0% G) @ 69': light brownish gray (10YR/6/2), moist, hard-very hard, med plasticity; few Sand, fine; few Gravel, fine-coarse (up to 3"), subangular, clasts range in composition; trace cobbles (up to 4"). (85% F, 10% S, 5% G) BEDROCK (SILTSTONE/CLAYSTONE): pulverized by drill casing, very dark grayish brown (10YR/3/2), dry, very hard, med plasticity; little Gravel, fine-coarse, subangular. (80% F, 0% S, 20% G) @ 74.5': BEDROCK (CLAYSTONE): pulverized by drill casing, dark gray (10YR/4/1), dry, very hard, med-high plasticity; core is claystone chips.		0.0	
75				2.2	

NOTES: After sampling, temporary well equipment was removed from the boring, and boring was backfilled with San Luis Obispo specific mixture of bentonite and neat cement.

Terminal depth at 76-ft bgs

Laboratory Analytical Reports



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

30 August 2016

RE: San Luis Obispo

Work Order: 1603170

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 23-Aug-16 15:20 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads 'Elizabeth Minemann'.

Elizabeth Minemann

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01A-69.5	1603170-01	Water	22-Aug-16 17:09	23-Aug-16 15:20
#15 081016-15	1603170-02	Water	22-Aug-16 10:41	23-Aug-16 15:20



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
30-Aug-16 14:15

SB-01A-69.5
1603170-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	"
Bromochloromethane	ND	0.50	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	"
Bromoform	ND	0.50	"	"	"	"	"	"	"
Bromomethane	ND	0.50	"	"	"	"	"	"	"
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	0.50	"	"	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"	"	"
Chloroform	ND	0.50	"	"	"	"	"	"	"
Chloromethane	ND	0.50	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	"
Dibromomethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	"

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
30-Aug-16 14:15

SB-01A-69.5
1603170-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	"
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	"
Methylene chloride	ND	0.50	"	"	"	"	"	"	"
Naphthalene	ND	0.50	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	"
Styrene	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
Vinyl chloride	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	"
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	"
Iodomethane	ND	1.0	"	"	"	"	"	"	"
Acetone	ND	5.0	"	"	"	"	"	"	"
Carbon disulfide	ND	1.0	"	"	"	"	"	"	"
Acrylonitrile	ND	10	"	"	"	"	"	"	"
Vinyl acetate	ND	2.0	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	"
2-Hexanone	ND	0.50	"	"	"	"	"	"	"
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	"

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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SB-01A-69.5
1603170-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

t-Butyl alcohol	ND	10	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.8 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.1 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
30-Aug-16 14:15

#15 081016-15
1603170-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	"
Bromochloromethane	ND	0.50	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	"
Bromoform	ND	0.50	"	"	"	"	"	"	"
Bromomethane	ND	0.50	"	"	"	"	"	"	"
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	0.50	"	"	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"	"	"
Chloroform	ND	0.50	"	"	"	"	"	"	"
Chloromethane	ND	0.50	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	"
Dibromomethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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#15 081016-15
1603170-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	CCHI
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	CCHI
2-Hexanone	ND	0.50	"	"	"	"	"	"	B-01, CCHI
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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#15 081016-15
1603170-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B
<i>Surrogate: Dibromofluoromethane</i>	97.8 %		89-115		"	"	"	"
<i>Surrogate: Toluene-d8</i>	99.4 %		75-117		"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	98.2 %		80-116		"	"	"	"

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCCMS

Blank (B6H0650-BLK1)				Prepared & Analyzed: 24-Aug-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCGCMS

Blank (B6H0650-BLK1)				Prepared & Analyzed: 24-Aug-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							CCHI
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							CCHI
2-Butanone (MEK)	ND	10	"							CCHI
2-Hexanone	1.97	0.50	"							B-01, CCFH
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>12.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>		<i>98.6</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>	<i>"</i>	<i>"</i>	<i>12.5</i>		<i>102</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>	<i>"</i>	<i>"</i>	<i>12.5</i>		<i>102</i>	<i>80-116</i>			

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCGCMS

LCS (B6H0650-BS1)		Prepared & Analyzed: 24-Aug-16								
Benzene	25.6	0.50	ug/L	25.0		102	84-118			
Chlorobenzene	28.3	0.50	"	25.0		113	88-122			
1,1-Dichloroethene	33.7	0.50	"	25.0		135	69-135			
Toluene	26.3	0.50	"	25.0		105	76-122			
Trichloroethene (TCE)	24.4	0.50	"	25.0		97.6	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.4</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.7</i>		<i>"</i>	<i>12.5</i>		<i>102</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.0</i>		<i>"</i>	<i>12.5</i>		<i>95.9</i>	<i>80-116</i>			

LCS Dup (B6H0650-BSD1)		Prepared & Analyzed: 24-Aug-16								
Benzene	25.3	0.50	ug/L	25.0		101	84-118	1.10	20	
Chlorobenzene	28.5	0.50	"	25.0		114	88-122	0.915	20	
1,1-Dichloroethene	33.5	0.50	"	25.0		134	69-135	0.655	20	
Toluene	26.1	0.50	"	25.0		104	76-122	0.878	20	
Trichloroethene (TCE)	24.0	0.50	"	25.0		96.0	85-119	1.61	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.2</i>		<i>"</i>	<i>12.5</i>		<i>97.3</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.1</i>	<i>80-116</i>			

Duplicate (B6H0650-DUP1)		Source: 1603154-02		Prepared & Analyzed: 24-Aug-16						
Benzene	ND	0.50	ug/L			ND				20
Bromobenzene	ND	0.50	"			ND				20
Bromochloromethane	ND	0.50	"			ND				20
Bromodichloromethane	ND	0.50	"			ND				20
Bromoform	ND	0.50	"			ND				20
Bromomethane	ND	0.50	"			ND				20
n-Butylbenzene	ND	0.50	"			ND				20
sec-Butylbenzene	ND	0.50	"			ND				20
tert-Butylbenzene	ND	0.50	"			ND				20
Carbon tetrachloride	ND	0.50	"			ND				20
Chlorobenzene	ND	0.50	"			ND				20
Chloroethane	ND	0.50	"			ND				20
Chloroform	ND	0.50	"			ND				20
Chloromethane	ND	0.50	"			ND				20
2-Chlorotoluene	ND	0.50	"			ND				20
4-Chlorotoluene	ND	0.50	"			ND				20
1,2-Dibromo-3-chloropropane	ND	1.0	"			ND				20
Dibromochloromethane	ND	0.50	"			ND				20
Dibromomethane	ND	0.50	"			ND				20
1,2-Dichlorobenzene	ND	0.50	"			ND				20
1,3-Dichlorobenzene	ND	0.50	"			ND				20

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCGCMS

Duplicate (B6H0650-DUP1)	Source: 1603154-02			Prepared & Analyzed: 24-Aug-16						
1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	0.270	0.50	"		0.270			0.00	20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Acetone	6.44	5.0	"		6.26			2.83	20	CCFH

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCGCMS

Duplicate (B6H0650-DUP1)		Source: 1603154-02			Prepared & Analyzed: 24-Aug-16					
Iodomethane	ND	1.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	CCHI
2-Hexanone	1.23	0.50	"		1.64			28.6	20	B-01, CCFH, QR-01
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	12.4		"	12.5		99.0	89-115			
<i>Surrogate: Toluene-d8</i>	12.6		"	12.5		101	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.7		"	12.5		102	80-116			

Matrix Spike (B6H0650-MS1)		Source: 1603154-02			Prepared: 24-Aug-16 Analyzed: 25-Aug-16					
Benzene	25.5	0.50	ug/L	25.0	ND	102	84-117			
Chlorobenzene	28.1	0.50	"	25.0	ND	113	86-120			
1,1-Dichloroethene	35.2	0.50	"	25.0	ND	141	68-137			QM-07
Toluene	27.2	0.50	"	25.0	0.270	108	66-126			
Trichloroethene (TCE)	23.4	0.50	"	25.0	ND	93.5	80-120			
<i>Surrogate: Dibromofluoromethane</i>	12.0		"	12.5		96.0	89-115			
<i>Surrogate: Toluene-d8</i>	12.7		"	12.5		101	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.1		"	12.5		96.8	80-116			

Matrix Spike Dup (B6H0650-MSD1)		Source: 1603154-02			Prepared: 24-Aug-16 Analyzed: 25-Aug-16					
Benzene	25.7	0.50	ug/L	25.0	ND	103	84-117	0.547	20	
Chlorobenzene	28.2	0.50	"	25.0	ND	113	86-120	0.178	20	
1,1-Dichloroethene	35.6	0.50	"	25.0	ND	142	68-137	1.10	20	QM-07
Toluene	26.5	0.50	"	25.0	0.270	105	66-126	2.50	20	
Trichloroethene (TCE)	23.9	0.50	"	25.0	ND	95.5	80-120	2.07	20	
<i>Surrogate: Dibromofluoromethane</i>	12.0		"	12.5		95.6	89-115			
<i>Surrogate: Toluene-d8</i>	12.6		"	12.5		101	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.2		"	12.5		97.3	80-116			

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>101</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>94.5</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>98.3</i>	<i>80-116</i>				

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCGCMS

LCS (B6H0694-BS1)		Prepared & Analyzed: 26-Aug-16								
Benzene	26.9	0.50	ug/L	25.0		108	84-118			
Chlorobenzene	27.4	0.50	"	25.0		109	88-122			
1,1-Dichloroethene	28.9	0.50	"	25.0		116	69-135			
Toluene	26.5	0.50	"	25.0		106	76-122			
Trichloroethene (TCE)	26.8	0.50	"	25.0		107	85-119			
<i>Surrogate: Dibromofluoromethane</i>	12.6		"	12.5		101	89-115			
<i>Surrogate: Toluene-d8</i>	11.7		"	12.5		93.9	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.3		"	12.5		98.1	80-116			

LCS Dup (B6H0694-BSD1)		Prepared & Analyzed: 26-Aug-16								
Benzene	27.6	0.50	ug/L	25.0		110	84-118	2.39	20	
Chlorobenzene	28.5	0.50	"	25.0		114	88-122	4.15	20	
1,1-Dichloroethene	29.4	0.50	"	25.0		118	69-135	1.78	20	
Toluene	26.7	0.50	"	25.0		107	76-122	0.789	20	
Trichloroethene (TCE)	27.4	0.50	"	25.0		109	85-119	1.92	20	
<i>Surrogate: Dibromofluoromethane</i>	12.6		"	12.5		101	89-115			
<i>Surrogate: Toluene-d8</i>	11.3		"	12.5		90.3	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.2		"	12.5		97.8	80-116			

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16								
Benzene	ND	0.50	ug/L		ND					20
Bromobenzene	ND	0.50	"		ND					20
Bromochloromethane	ND	0.50	"		ND					20
Bromodichloromethane	ND	0.50	"		ND					20
Bromoform	ND	0.50	"		ND					20
Bromomethane	ND	0.50	"		ND					20
n-Butylbenzene	ND	0.50	"		ND					20
sec-Butylbenzene	ND	0.50	"		ND					20
tert-Butylbenzene	ND	0.50	"		ND					20
Carbon tetrachloride	ND	0.50	"		ND					20
Chlorobenzene	ND	0.50	"		ND					20
Chloroethane	ND	0.50	"		ND					20
Chloroform	ND	0.50	"		ND					20
Chloromethane	ND	0.50	"		ND					20
2-Chlorotoluene	ND	0.50	"		ND					20
4-Chlorotoluene	ND	0.50	"		ND					20
1,2-Dibromo-3-chloropropane	ND	1.0	"		ND					20
Dibromochloromethane	ND	0.50	"		ND					20
Dibromomethane	ND	0.50	"		ND					20
1,2-Dichlorobenzene	ND	0.50	"		ND					20
1,3-Dichlorobenzene	ND	0.50	"		ND					20

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
30-Aug-16 14:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Duplicate (B6H0694-DUP1)

Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16

1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Acetone	ND	5.0	"		ND				20	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 30-Aug-16 14:15
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCGCMS

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1		Prepared & Analyzed: 26-Aug-16						
Iodomethane	ND	1.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	12.7		"	12.5		102	89-115			
<i>Surrogate: Toluene-d8</i>	11.8		"	12.5		94.0	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.1		"	12.5		96.8	80-116			

Matrix Spike (B6H0694-MS1)		Source: 1603193-01RE1		Prepared & Analyzed: 26-Aug-16		OTWN				
Benzene	24.6	0.50	ug/L	25.0	ND	98.3	84-117			
Chlorobenzene	23.1	0.50	"	25.0	ND	92.2	86-120			
1,1-Dichloroethene	25.6	0.50	"	25.0	ND	103	68-137			
Toluene	24.4	0.50	"	25.0	ND	97.7	66-126			
Trichloroethene (TCE)	23.2	0.50	"	25.0	ND	92.7	80-120			
<i>Surrogate: Dibromofluoromethane</i>	11.7		"	12.5		93.4	89-115			
<i>Surrogate: Toluene-d8</i>	12.4		"	12.5		99.6	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	12.5		109	80-116			



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
30-Aug-16 14:15

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery and/or RPD values.
- OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.
- CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.
- CCFH The CCV for this analyte failed high. Results for this analyte may be biased high.
- B-01 The method blank contains analyte at a concentration above the RL/PQL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

31 August 2016

RE: San Luis Obispo

Work Order: 1603154

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 22-Aug-16 16:05 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'Elizabeth Minemann'. The signature is written in a cursive, flowing style.

Elizabeth Minemann

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01A-61.5	1603154-01	GW	22-Aug-16 10:50	22-Aug-16 16:05
SB-01A-61.5-D	1603154-02	GW	22-Aug-16 10:50	22-Aug-16 16:05
SB-01A-61.5-EB	1603154-03	Aqueous	22-Aug-16 08:48	22-Aug-16 16:05
#16 081016-16	1603154-04	Aqueous	22-Aug-16 10:50	22-Aug-16 16:05



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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SB-01A-61.5
1603154-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0604	23-Aug-16	23-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

SB-01A-61.5
1603154-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B6H0604	23-Aug-16	23-Aug-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	CCFH
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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SB-01A-61.5
1603154-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

t-Butyl alcohol	ND	10	ug/L	1	B6H0604	23-Aug-16	23-Aug-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97.1 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.5 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

SB-01A-61.5-D
1603154-02 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	"
Bromochloromethane	ND	0.50	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	"
Bromoform	ND	0.50	"	"	"	"	"	"	"
Bromomethane	ND	0.50	"	"	"	"	"	"	"
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	0.50	"	"	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"	"	"
Chloroform	ND	0.50	"	"	"	"	"	"	"
Chloromethane	ND	0.50	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	"
Dibromomethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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SB-01A-61.5-D
1603154-02 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	5.2	5.0	"	"	B6H0694	26-Aug-16	26-Aug-16	"	
Carbon disulfide	ND	1.0	"	"	B6H0650	24-Aug-16	24-Aug-16	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	CCHI
2-Hexanone	ND	0.50	"	"	B6H0694	26-Aug-16	26-Aug-16	"	
t-Amyl Methyl Ether	ND	0.50	"	"	B6H0650	24-Aug-16	24-Aug-16	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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SB-01A-61.5-D
1603154-02 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		98.5 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	80-116		"	"	"	"	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

SB-01A-61.5-EB
1603154-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	"
Bromochloromethane	ND	0.50	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	"
Bromoform	ND	0.50	"	"	"	"	"	"	"
Bromomethane	ND	0.50	"	"	"	"	"	"	"
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	0.50	"	"	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"	"	"
Chloroform	ND	0.50	"	"	"	"	"	"	"
Chloromethane	ND	0.50	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	"
Dibromomethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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SB-01A-61.5-EB
1603154-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	CCHI
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	CCHI
2-Hexanone	ND	0.50	"	"	B6H0694	26-Aug-16	26-Aug-16	"	
t-Amyl Methyl Ether	ND	0.50	"	"	B6H0650	24-Aug-16	24-Aug-16	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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SB-01A-61.5-EB
1603154-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		101 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

#16 081016-16
1603154-04 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	"
Bromochloromethane	ND	0.50	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	"
Bromoform	ND	0.50	"	"	"	"	"	"	"
Bromomethane	ND	0.50	"	"	"	"	"	"	"
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	0.50	"	"	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"	"	"
Chloroform	ND	0.50	"	"	"	"	"	"	"
Chloromethane	ND	0.50	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	"
Dibromomethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

#16 081016-16
1603154-04 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	CCHI
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	CCHI
2-Hexanone	ND	0.50	"	"	"	"	"	"	B-01, CCHI
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

#16 081016-16
1603154-04 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6H0650	24-Aug-16	24-Aug-16	EPA 8260B
<i>Surrogate: Dibromofluoromethane</i>	96.8 %	89-115			"	"	"	"
<i>Surrogate: Toluene-d8</i>	102 %	75-117			"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %	80-116			"	"	"	"

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0604 - EPA 5030B VOCGCMS

Blank (B6H0604-BLK1) Prepared & Analyzed: 23-Aug-16

Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0604 - EPA 5030B VOCCMS

Blank (B6H0604-BLK1)				Prepared & Analyzed: 23-Aug-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Acetone	ND	5.0	"							CCHI
Iodomethane	ND	1.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
Surrogate: Dibromofluoromethane	11.7		"	12.5		93.6	89-115			
Surrogate: Toluene-d8	11.9		"	12.5		95.1	75-117			
Surrogate: 4-Bromofluorobenzene	9.78		"	12.5		78.2	80-116			A-01

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0604 - EPA 5030B VOCGCMS

LCS (B6H0604-BS1)

Prepared & Analyzed: 23-Aug-16

Benzene	25.9	0.50	ug/L	25.0		104	84-118			
Chlorobenzene	26.2	0.50	"	25.0		105	88-122			
1,1-Dichloroethene	29.0	0.50	"	25.0		116	69-135			
Toluene	25.9	0.50	"	25.0		104	76-122			
Trichloroethene (TCE)	25.5	0.50	"	25.0		102	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>12.3</i>		"	<i>12.5</i>		<i>98.2</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.6</i>		"	<i>12.5</i>		<i>92.4</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.6</i>		"	<i>12.5</i>		<i>92.9</i>	<i>80-116</i>			

LCS Dup (B6H0604-BS1)

Prepared & Analyzed: 23-Aug-16

Benzene	27.5	0.50	ug/L	25.0		110	84-118	6.14	20	
Chlorobenzene	28.6	0.50	"	25.0		114	88-122	8.51	20	
1,1-Dichloroethene	29.9	0.50	"	25.0		120	69-135	3.36	20	
Toluene	27.7	0.50	"	25.0		111	76-122	6.87	20	
Trichloroethene (TCE)	27.1	0.50	"	25.0		108	85-119	5.89	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>11.9</i>		"	<i>12.5</i>		<i>95.0</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>		"	<i>12.5</i>		<i>94.8</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10.4</i>		"	<i>12.5</i>		<i>82.9</i>	<i>80-116</i>			

Duplicate (B6H0604-DUP1)

Source: 1603154-01

Prepared & Analyzed: 23-Aug-16

Benzene	ND	0.50	ug/L		ND				20	
Bromobenzene	ND	0.50	"		ND				20	
Bromochloromethane	ND	0.50	"		ND				20	
Bromodichloromethane	ND	0.50	"		ND				20	
Bromoform	ND	0.50	"		ND				20	
Bromomethane	ND	0.50	"		ND				20	
n-Butylbenzene	ND	0.50	"		ND				20	
sec-Butylbenzene	ND	0.50	"		ND				20	
tert-Butylbenzene	ND	0.50	"		ND				20	
Carbon tetrachloride	ND	0.50	"		ND				20	
Chlorobenzene	ND	0.50	"		ND				20	
Chloroethane	ND	0.50	"		ND				20	
Chloroform	ND	0.50	"		ND				20	
Chloromethane	ND	0.50	"		ND				20	
2-Chlorotoluene	ND	0.50	"		ND				20	
4-Chlorotoluene	ND	0.50	"		ND				20	
1,2-Dibromo-3-chloropropane	ND	1.0	"		ND				20	
Dibromochloromethane	ND	0.50	"		ND				20	
Dibromomethane	ND	0.50	"		ND				20	
1,2-Dichlorobenzene	ND	0.50	"		ND				20	
1,3-Dichlorobenzene	ND	0.50	"		ND				20	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0604 - EPA 5030B VOCCMS

Duplicate (B6H0604-DUP1)	Source: 1603154-01			Prepared & Analyzed: 23-Aug-16						
1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	

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209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0604 - EPA 5030B VOCGCMS

Duplicate (B6H0604-DUP1)		Source: 1603154-01			Prepared & Analyzed: 23-Aug-16				
Acetone	ND	5.0	ug/L		3.26			20	CCHI
Carbon disulfide	ND	1.0	"		ND			20	
Acrylonitrile	ND	10	"		ND			20	
Vinyl acetate	ND	2.0	"		ND			20	
2-Butanone (MEK)	ND	10	"		ND			20	
2-Hexanone	ND	0.50	"		ND			20	
t-Amyl Methyl Ether	ND	0.50	"		ND			20	
t-Butyl alcohol	ND	10	"		ND			20	
Diisopropyl Ether	ND	0.50	"		ND			20	
Ethanol	ND	500	"		ND			20	
Ethyl t-Butyl Ether	ND	0.50	"		ND			20	
Methyl-t-butyl ether	ND	0.50	"		ND			20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.0</i>		<i>"</i>	<i>12.5</i>		<i>95.8</i>	<i>89-115</i>		
<i>Surrogate: Toluene-d8</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>95.2</i>	<i>75-117</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.2</i>		<i>"</i>	<i>12.5</i>		<i>89.7</i>	<i>80-116</i>		

Matrix Spike (B6H0604-MS1)		Source: 1603042-01			Prepared & Analyzed: 23-Aug-16				OTWN
Benzene	26.2	0.50	ug/L	25.0	ND	105	84-117		
Chlorobenzene	26.5	0.50	"	25.0	ND	106	86-120		
1,1-Dichloroethene	27.7	0.50	"	25.0	ND	111	68-137		
Toluene	26.0	0.50	"	25.0	ND	104	66-126		
Trichloroethene (TCE)	25.6	0.50	"	25.0	ND	102	80-120		
<i>Surrogate: Dibromofluoromethane</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.2</i>	<i>89-115</i>		
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.6</i>	<i>75-117</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.5</i>		<i>"</i>	<i>12.5</i>		<i>91.9</i>	<i>80-116</i>		

Batch B6H0650 - EPA 5030B VOCGCMS

Blank (B6H0650-BLK1)					Prepared & Analyzed: 24-Aug-16				
Benzene	ND	0.50	ug/L						
Bromobenzene	ND	0.50	"						
Bromochloromethane	ND	0.50	"						
Bromodichloromethane	ND	0.50	"						
Bromoform	ND	0.50	"						
Bromomethane	ND	0.50	"						
n-Butylbenzene	ND	0.50	"						
sec-Butylbenzene	ND	0.50	"						
tert-Butylbenzene	ND	0.50	"						
Carbon tetrachloride	ND	0.50	"						
Chlorobenzene	ND	0.50	"						
Chloroethane	ND	0.50	"						

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCCMS

Blank (B6H0650-BLK1)	Prepared & Analyzed: 24-Aug-16									
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCGCMS

Blank (B6H0650-BLK1) Prepared & Analyzed: 24-Aug-16

Trichlorofluoromethane	ND	0.50	ug/L							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Acetone	ND	5.0	"							CCHI
Iodomethane	ND	1.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							CCHI
2-Butanone (MEK)	ND	10	"							CCHI
2-Hexanone	1.97	0.50	"							B-01, CCFH
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							

Surrogate: Dibromofluoromethane	12.3		"	12.5		98.6	89-115			
Surrogate: Toluene-d8	12.8		"	12.5		102	75-117			
Surrogate: 4-Bromofluorobenzene	12.7		"	12.5		102	80-116			

LCS (B6H0650-BS1) Prepared & Analyzed: 24-Aug-16

Benzene	25.6	0.50	ug/L	25.0		102	84-118			
Chlorobenzene	28.3	0.50	"	25.0		113	88-122			
1,1-Dichloroethene	33.7	0.50	"	25.0		135	69-135			
Toluene	26.3	0.50	"	25.0		105	76-122			
Trichloroethene (TCE)	24.4	0.50	"	25.0		97.6	85-119			

Surrogate: Dibromofluoromethane	12.3		"	12.5		98.4	89-115			
Surrogate: Toluene-d8	12.7		"	12.5		102	75-117			
Surrogate: 4-Bromofluorobenzene	12.0		"	12.5		95.9	80-116			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCCMS

LCS Dup (B6H0650-BSD1)				Prepared & Analyzed: 24-Aug-16						
Benzene	25.3	0.50	ug/L	25.0	101	84-118	1.10	20		
Chlorobenzene	28.5	0.50	"	25.0	114	88-122	0.915	20		
1,1-Dichloroethene	33.5	0.50	"	25.0	134	69-135	0.655	20		
Toluene	26.1	0.50	"	25.0	104	76-122	0.878	20		
Trichloroethene (TCE)	24.0	0.50	"	25.0	96.0	85-119	1.61	20		
<i>Surrogate: Dibromofluoromethane</i>	12.2		"	12.5	97.3	89-115				
<i>Surrogate: Toluene-d8</i>	12.6		"	12.5	101	75-117				
<i>Surrogate: 4-Bromofluorobenzene</i>	12.3		"	12.5	98.1	80-116				

Duplicate (B6H0650-DUP1)				Source: 1603154-02 Prepared & Analyzed: 24-Aug-16						
Benzene	ND	0.50	ug/L	ND				20		
Bromobenzene	ND	0.50	"	ND				20		
Bromochloromethane	ND	0.50	"	ND				20		
Bromodichloromethane	ND	0.50	"	ND				20		
Bromoform	ND	0.50	"	ND				20		
Bromomethane	ND	0.50	"	ND				20		
n-Butylbenzene	ND	0.50	"	ND				20		
sec-Butylbenzene	ND	0.50	"	ND				20		
tert-Butylbenzene	ND	0.50	"	ND				20		
Carbon tetrachloride	ND	0.50	"	ND				20		
Chlorobenzene	ND	0.50	"	ND				20		
Chloroethane	ND	0.50	"	ND				20		
Chloroform	ND	0.50	"	ND				20		
Chloromethane	ND	0.50	"	ND				20		
2-Chlorotoluene	ND	0.50	"	ND				20		
4-Chlorotoluene	ND	0.50	"	ND				20		
1,2-Dibromo-3-chloropropane	ND	1.0	"	ND				20		
Dibromochloromethane	ND	0.50	"	ND				20		
Dibromomethane	ND	0.50	"	ND				20		
1,2-Dichlorobenzene	ND	0.50	"	ND				20		
1,3-Dichlorobenzene	ND	0.50	"	ND				20		
1,4-Dichlorobenzene	ND	0.50	"	ND				20		
Dichlorodifluoromethane	ND	0.50	"	ND				20		
1,1-Dichloroethane	ND	0.50	"	ND				20		
1,2-Dichloroethane	ND	0.50	"	ND				20		
1,1-Dichloroethene	ND	0.50	"	ND				20		
cis-1,2-Dichloroethene	ND	0.50	"	ND				20		
trans-1,2-Dichloroethene	ND	0.50	"	ND				20		
1,2-Dichloropropane	ND	0.50	"	ND				20		
1,3-Dichloropropane	ND	0.50	"	ND				20		

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCGCMS

Duplicate (B6H0650-DUP1)	Source: 1603154-02			Prepared & Analyzed: 24-Aug-16						
2,2-Dichloropropane	ND	0.50	ug/L		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	0.270	0.50	"		0.270			0.00	20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	
Acetone	6.44	5.0	"		6.26			2.83	20	CCFH
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	CCHI
2-Hexanone	1.23	0.50	"		1.64			28.6	20	B-01, CCFH, QR-01
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0650 - EPA 5030B VOCGCMS

Duplicate (B6H0650-DUP1)		Source: 1603154-02			Prepared & Analyzed: 24-Aug-16					
Ethanol	ND	500	ug/L		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	12.4		"	12.5		99.0	89-115			
<i>Surrogate: Toluene-d8</i>	12.6		"	12.5		101	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.7		"	12.5		102	80-116			

Matrix Spike (B6H0650-MS1)		Source: 1603154-02			Prepared: 24-Aug-16 Analyzed: 25-Aug-16					
Benzene	25.5	0.50	ug/L	25.0	ND	102	84-117			
Chlorobenzene	28.1	0.50	"	25.0	ND	113	86-120			
1,1-Dichloroethene	35.2	0.50	"	25.0	ND	141	68-137			QM-07
Toluene	27.2	0.50	"	25.0	0.270	108	66-126			
Trichloroethene (TCE)	23.4	0.50	"	25.0	ND	93.5	80-120			
<i>Surrogate: Dibromofluoromethane</i>	12.0		"	12.5		96.0	89-115			
<i>Surrogate: Toluene-d8</i>	12.7		"	12.5		101	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.1		"	12.5		96.8	80-116			

Matrix Spike Dup (B6H0650-MSD1)		Source: 1603154-02			Prepared: 24-Aug-16 Analyzed: 25-Aug-16					
Benzene	25.7	0.50	ug/L	25.0	ND	103	84-117	0.547	20	
Chlorobenzene	28.2	0.50	"	25.0	ND	113	86-120	0.178	20	
1,1-Dichloroethene	35.6	0.50	"	25.0	ND	142	68-137	1.10	20	QM-07
Toluene	26.5	0.50	"	25.0	0.270	105	66-126	2.50	20	
Trichloroethene (TCE)	23.9	0.50	"	25.0	ND	95.5	80-120	2.07	20	
<i>Surrogate: Dibromofluoromethane</i>	12.0		"	12.5		95.6	89-115			
<i>Surrogate: Toluene-d8</i>	12.6		"	12.5		101	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.2		"	12.5		97.3	80-116			



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)

Prepared & Analyzed: 26-Aug-16

Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCGMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Acetone	ND	5.0	"							
Iodomethane	ND	1.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>101</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>94.5</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>98.3</i>	<i>80-116</i>				

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCGCMS

LCS (B6H0694-BS1)		Prepared & Analyzed: 26-Aug-16								
Benzene	26.9	0.50	ug/L	25.0		108	84-118			
Chlorobenzene	27.4	0.50	"	25.0		109	88-122			
1,1-Dichloroethene	28.9	0.50	"	25.0		116	69-135			
Toluene	26.5	0.50	"	25.0		106	76-122			
Trichloroethene (TCE)	26.8	0.50	"	25.0		107	85-119			
<i>Surrogate: Dibromofluoromethane</i>	12.6		"	12.5		101	89-115			
<i>Surrogate: Toluene-d8</i>	11.7		"	12.5		93.9	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.3		"	12.5		98.1	80-116			

LCS Dup (B6H0694-BSD1)		Prepared & Analyzed: 26-Aug-16								
Benzene	27.6	0.50	ug/L	25.0		110	84-118	2.39	20	
Chlorobenzene	28.5	0.50	"	25.0		114	88-122	4.15	20	
1,1-Dichloroethene	29.4	0.50	"	25.0		118	69-135	1.78	20	
Toluene	26.7	0.50	"	25.0		107	76-122	0.789	20	
Trichloroethene (TCE)	27.4	0.50	"	25.0		109	85-119	1.92	20	
<i>Surrogate: Dibromofluoromethane</i>	12.6		"	12.5		101	89-115			
<i>Surrogate: Toluene-d8</i>	11.3		"	12.5		90.3	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.2		"	12.5		97.8	80-116			

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16								
Benzene	ND	0.50	ug/L		ND					20
Bromobenzene	ND	0.50	"		ND					20
Bromochloromethane	ND	0.50	"		ND					20
Bromodichloromethane	ND	0.50	"		ND					20
Bromoform	ND	0.50	"		ND					20
Bromomethane	ND	0.50	"		ND					20
n-Butylbenzene	ND	0.50	"		ND					20
sec-Butylbenzene	ND	0.50	"		ND					20
tert-Butylbenzene	ND	0.50	"		ND					20
Carbon tetrachloride	ND	0.50	"		ND					20
Chlorobenzene	ND	0.50	"		ND					20
Chloroethane	ND	0.50	"		ND					20
Chloroform	ND	0.50	"		ND					20
Chloromethane	ND	0.50	"		ND					20
2-Chlorotoluene	ND	0.50	"		ND					20
4-Chlorotoluene	ND	0.50	"		ND					20
1,2-Dibromo-3-chloropropane	ND	1.0	"		ND					20
Dibromochloromethane	ND	0.50	"		ND					20
Dibromomethane	ND	0.50	"		ND					20
1,2-Dichlorobenzene	ND	0.50	"		ND					20
1,3-Dichlorobenzene	ND	0.50	"		ND					20

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
31-Aug-16 11:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCGCMS

Duplicate (B6H0694-DUP1)

Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16

1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCGCMS

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1		Prepared & Analyzed: 26-Aug-16						
Acetone	ND	5.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.7</i>		<i>"</i>	<i>12.5</i>		<i>102</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.0</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.1</i>		<i>"</i>	<i>12.5</i>		<i>96.8</i>	<i>80-116</i>			

Matrix Spike (B6H0694-MS1)		Source: 1603193-01RE1		Prepared & Analyzed: 26-Aug-16							OTWN
Benzene	24.6	0.50	ug/L	25.0	ND	98.3	84-117				
Chlorobenzene	23.1	0.50	"	25.0	ND	92.2	86-120				
1,1-Dichloroethene	25.6	0.50	"	25.0	ND	103	68-137				
Toluene	24.4	0.50	"	25.0	ND	97.7	66-126				
Trichloroethene (TCE)	23.2	0.50	"	25.0	ND	92.7	80-120				
<i>Surrogate: Dibromofluoromethane</i>	<i>11.7</i>		<i>"</i>	<i>12.5</i>		<i>93.4</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>12.4</i>		<i>"</i>	<i>12.5</i>		<i>99.6</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.7</i>		<i>"</i>	<i>12.5</i>		<i>109</i>	<i>80-116</i>				



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 31-Aug-16 11:29
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Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery and/or RPD values.
- OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.
- CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.
- CCFH The CCV for this analyte failed high. Results for this analyte may be biased high.
- B-01 The method blank contains analyte at a concentration above the RL/PQL.
- A-01 The surrogate recovery is outside of the in-house generated control limits, but within the 70-130% recovery range
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

CLIENT: RouxWORK ORDER: 1603154TEMPERATURE: 7 °C
Acceptable Range: 0°C to 6°C [see exception notes below]

SAMPLE RECEIPT

COC RECEIVED DATE/TIME: 08-22-16 1605LOGIN DATE/TIME: 08/22/16 @ 1653REFRIGERATOR(S): 3

SAMPLE TRANSPORT

- OEC Courier/Sampler
 Delivery (Other than OEC)
 After-Hours Outside Drop-Off [Brought Inside]
 Initials/Date/Time: _____
 Shipment Carrier: _____
 Tracking #: _____

CUSTODY SEALS

 None Present

- Cooler(s): Present, Intact Present, Not Intact None
 Sample(s): Present, Intact Present, Not Intact None
TRIPBLANK

SAMPLE RECEIPT, CONDITION, PRESERVATION

- Samples Received on Ice Within Temperature Range [Acceptable]
 Samples Received Outside Temperature Range [Acceptable]
 Direct from Field, on Ice
 Ambient: Air or Filter Matrix
 Received Ambient, Placed on Ice for Transport
 Sample Temperature Acceptable for Analysis Requested
 Samples Received Outside Temperature Range [Exception]
 Insufficient Ice or Unknown Cause
 See Problem Chain *

(*) PROBLEM CHAIN REQUIRED

- | | YES | NO | N/A | (**) OEC PRES. ID |
|---|-------------------------------------|---------------------------------------|-------------------------------------|-------------------|
| Completed COC(s) Received With Samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> * | <input type="checkbox"/> | _____ |
| Correct Container(s) for Analysis Requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> * | <input type="checkbox"/> | _____ |
| Container(s) Intact and in Good Condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> * | <input type="checkbox"/> | _____ |
| Container Label(s) Consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> * | <input type="checkbox"/> | _____ |
| Proper Preservation on Sample Label(s) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| OEC Preservative Added ** | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| VOA Containers Free of Headpace | <input type="checkbox"/> | <input checked="" type="checkbox"/> V | <input type="checkbox"/> | _____ |
| Tedlar Bag(s) Free of Condensation | <input type="checkbox"/> | <input type="checkbox"/> * | <input checked="" type="checkbox"/> | _____ |
| * OR <input checked="" type="checkbox"/> (Comments) Expedited PM Notification [Init/Date/Time]: _____ | | | | |

See Comments below or Problem Chain

CONTAINERS, COC CHANGES, AND/OR CORRECTIONS

OEC CONTAINER ID	CONTAINER DESCRIPTION	PRESERVATIVE	CHECKS: Cl ⁻ , S ²⁻ &/or pH	MATRIX	COMMENTS	INITIALS
1-3A-C	3-40mL VOAs EA	HCl	-	W	3C Has HEADSPACE	
4A	1-40mL VOA	HCl	-	W	(TB)	

Rev. 02/12/2016

RECEIPT LOGIN BY: EnARECEIPT REVIEWED BY: LuePage 1 of 1



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

06 September 2016

RE: San Luis Obispo

Work Order: 1603192

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 24-Aug-16 16:23 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Meredith Sprister". The signature is written in a cursive, flowing style.

Meredith Sprister

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-04-30	1603192-01	Water	24-Aug-16 08:12	24-Aug-16 16:23
#17-081016	1603192-02	Water	24-Aug-16 08:12	24-Aug-16 16:23



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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SB-04-30
1603192-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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SB-04-30
1603192-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	"
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	"
Methylene chloride	ND	0.50	"	"	"	"	"	"	"
Naphthalene	ND	0.50	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	"
Styrene	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
Vinyl chloride	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	"
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	"
Iodomethane	ND	1.0	"	"	"	"	"	"	"
Acetone	ND	5.0	"	"	"	"	"	"	"
Carbon disulfide	ND	1.0	"	"	"	"	"	"	"
Acrylonitrile	ND	10	"	"	"	"	"	"	"
Vinyl acetate	ND	2.0	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	"
2-Hexanone	ND	0.50	"	"	"	"	"	"	"
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	"

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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SB-04-30
1603192-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

t-Butyl alcohol	ND	10	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		89-115	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.6 %		75-117	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.5 %		80-116	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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#17-081016
1603192-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:56

#17-081016
1603192-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

Oilfield Environmental and Compliance

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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#17-081016
1603192-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	102 %		89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	88.4 %		75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	86.6 %		80-116		"	"	"	"	

Oilfield Environmental and Compliance

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCGMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.5</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.3</i>	<i>80-116</i>			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCGCMS

LCS (B6H0694-BS1)		Prepared & Analyzed: 26-Aug-16								
Benzene	26.9	0.50	ug/L	25.0		108	84-118			
Chlorobenzene	27.4	0.50	"	25.0		109	88-122			
1,1-Dichloroethene	28.9	0.50	"	25.0		116	69-135			
Toluene	26.5	0.50	"	25.0		106	76-122			
Trichloroethene (TCE)	26.8	0.50	"	25.0		107	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.7</i>		<i>"</i>	<i>12.5</i>		<i>93.9</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.1</i>	<i>80-116</i>			

LCS Dup (B6H0694-BSD1)		Prepared & Analyzed: 26-Aug-16								
Benzene	27.6	0.50	ug/L	25.0		110	84-118	2.39	20	
Chlorobenzene	28.5	0.50	"	25.0		114	88-122	4.15	20	
1,1-Dichloroethene	29.4	0.50	"	25.0		118	69-135	1.78	20	
Toluene	26.7	0.50	"	25.0		107	76-122	0.789	20	
Trichloroethene (TCE)	27.4	0.50	"	25.0		109	85-119	1.92	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.3</i>		<i>"</i>	<i>12.5</i>		<i>90.3</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.2</i>		<i>"</i>	<i>12.5</i>		<i>97.8</i>	<i>80-116</i>			

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16								
Benzene	ND	0.50	ug/L		ND					20
Bromobenzene	ND	0.50	"		ND					20
Bromochloromethane	ND	0.50	"		ND					20
Bromodichloromethane	ND	0.50	"		ND					20
Bromoform	ND	0.50	"		ND					20
Bromomethane	ND	0.50	"		ND					20
n-Butylbenzene	ND	0.50	"		ND					20
sec-Butylbenzene	ND	0.50	"		ND					20
tert-Butylbenzene	ND	0.50	"		ND					20
Carbon tetrachloride	ND	0.50	"		ND					20
Chlorobenzene	ND	0.50	"		ND					20
Chloroethane	ND	0.50	"		ND					20
Chloroform	ND	0.50	"		ND					20
Chloromethane	ND	0.50	"		ND					20
2-Chlorotoluene	ND	0.50	"		ND					20
4-Chlorotoluene	ND	0.50	"		ND					20
1,2-Dibromo-3-chloropropane	ND	1.0	"		ND					20
Dibromochloromethane	ND	0.50	"		ND					20
Dibromomethane	ND	0.50	"		ND					20
1,2-Dichlorobenzene	ND	0.50	"		ND					20
1,3-Dichlorobenzene	ND	0.50	"		ND					20

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Duplicate (B6H0694-DUP1)

Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16

1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1		Prepared & Analyzed: 26-Aug-16						
Acetone	ND	5.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	12.7		"	12.5		102	89-115			
<i>Surrogate: Toluene-d8</i>	11.8		"	12.5		94.0	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.1		"	12.5		96.8	80-116			

Matrix Spike (B6H0694-MS1)		Source: 1603193-01RE1		Prepared & Analyzed: 26-Aug-16							OTWN
Benzene	24.6	0.50	ug/L	25.0	ND	98.3	84-117				
Chlorobenzene	23.1	0.50	"	25.0	ND	92.2	86-120				
1,1-Dichloroethene	25.6	0.50	"	25.0	ND	103	68-137				
Toluene	24.4	0.50	"	25.0	ND	97.7	66-126				
Trichloroethene (TCE)	23.2	0.50	"	25.0	ND	92.7	80-120				
<i>Surrogate: Dibromofluoromethane</i>	11.7		"	12.5		93.4	89-115				
<i>Surrogate: Toluene-d8</i>	12.4		"	12.5		99.6	75-117				
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	12.5		109	80-116				

Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)		Prepared & Analyzed: 03-Sep-16								
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610066 - EPA 5030B VOCCMS

Blank (B610066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Trichlorofluoromethane	ND	0.50	ug/L							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							

<i>Surrogate: Dibromofluoromethane</i>	13.0		"	12.5		104	89-115			
<i>Surrogate: Toluene-d8</i>	10.3		"	12.5		82.4	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.9		"	12.5		95.3	80-116			

LCS (B610066-BS1)				Prepared & Analyzed: 03-Sep-16						
Benzene	23.8	0.50	ug/L	25.0		95.3	84-118			
Chlorobenzene	27.1	0.50	"	25.0		108	88-122			
1,1-Dichloroethene	24.8	0.50	"	25.0		99.1	69-135			
Toluene	22.3	0.50	"	25.0		89.1	76-122			
Trichloroethene (TCE)	24.8	0.50	"	25.0		99.0	85-119			

<i>Surrogate: Dibromofluoromethane</i>	11.8		"	12.5		94.6	89-115			
<i>Surrogate: Toluene-d8</i>	10.3		"	12.5		82.1	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.6		"	12.5		92.6	80-116			

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610066 - EPA 5030B VOCCMS

LCS Dup (B610066-BSD1)				Prepared & Analyzed: 03-Sep-16						
Benzene	25.0	0.50	ug/L	25.0	100	84-118	4.91	20		
Chlorobenzene	27.1	0.50	"	25.0	108	88-122	0.0369	20		
1,1-Dichloroethene	25.0	0.50	"	25.0	99.8	69-135	0.724	20		
Toluene	23.8	0.50	"	25.0	95.2	76-122	6.60	20		
Trichloroethene (TCE)	25.8	0.50	"	25.0	103	85-119	3.96	20		
<i>Surrogate: Dibromofluoromethane</i>	<i>12.9</i>		<i>"</i>	<i>12.5</i>	<i>103</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.0</i>		<i>"</i>	<i>12.5</i>	<i>88.2</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>	<i>94.9</i>	<i>80-116</i>				

Duplicate (B610066-DUP1)		Source: 1603218-03		Prepared & Analyzed: 03-Sep-16						
Benzene	ND	0.50	ug/L	ND					20	
Bromobenzene	ND	0.50	"	ND					20	
Bromochloromethane	ND	0.50	"	ND					20	
Bromodichloromethane	ND	0.50	"	ND					20	
Bromoform	ND	0.50	"	ND					20	
Bromomethane	ND	0.50	"	ND					20	
n-Butylbenzene	ND	0.50	"	ND					20	
sec-Butylbenzene	ND	0.50	"	ND					20	
tert-Butylbenzene	ND	0.50	"	ND					20	
Carbon tetrachloride	ND	0.50	"	ND					20	
Chlorobenzene	ND	0.50	"	ND					20	
Chloroethane	ND	0.50	"	ND					20	
Chloroform	ND	0.50	"	ND					20	
Chloromethane	ND	0.50	"	ND					20	
2-Chlorotoluene	ND	0.50	"	ND					20	
4-Chlorotoluene	ND	0.50	"	ND					20	
1,2-Dibromo-3-chloropropane	ND	1.0	"	ND					20	
Dibromochloromethane	ND	0.50	"	ND					20	
Dibromomethane	ND	0.50	"	ND					20	
1,2-Dichlorobenzene	ND	0.50	"	ND					20	
1,3-Dichlorobenzene	ND	0.50	"	ND					20	
1,4-Dichlorobenzene	ND	0.50	"	ND					20	
Dichlorodifluoromethane	ND	0.50	"	ND					20	
1,1-Dichloroethane	ND	0.50	"	ND					20	
1,2-Dichloroethane	ND	0.50	"	ND					20	
1,1-Dichloroethene	ND	0.50	"	ND					20	
cis-1,2-Dichloroethene	ND	0.50	"	ND					20	
trans-1,2-Dichloroethene	ND	0.50	"	ND					20	
1,2-Dichloropropane	ND	0.50	"	ND					20	
1,3-Dichloropropane	ND	0.50	"	ND					20	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
2,2-Dichloropropane	ND	0.50	ug/L		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	
Acetone	ND	5.0	"		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	

Oilfield Environmental and Compliance

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:56
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
Ethanol	ND	500	ug/L		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	<i>13.7</i>		<i>"</i>	<i>12.5</i>		<i>110</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>12.5</i>		<i>85.5</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.3</i>	<i>80-116</i>			

Matrix Spike (B6I0066-MS1)	Source: 1603273-01			Prepared: 03-Sep-16 Analyzed: 04-Sep-16						OTWN
Benzene	23.4	0.50	ug/L	25.0	ND	93.6	84-117			
Chlorobenzene	26.9	0.50	"	25.0	ND	107	86-120			
1,1-Dichloroethene	24.3	0.50	"	25.0	ND	97.0	68-137			
Toluene	23.3	0.50	"	25.0	ND	93.2	66-126			
Trichloroethene (TCE)	23.8	0.50	"	25.0	ND	95.4	80-120			
<i>Surrogate: Dibromofluoromethane</i>	<i>12.7</i>		<i>"</i>	<i>12.5</i>		<i>102</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.6</i>		<i>"</i>	<i>12.5</i>		<i>84.5</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>9.41</i>		<i>"</i>	<i>12.5</i>		<i>75.3</i>	<i>80-116</i>			<i>A-01</i>



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:56

Notes and Definitions

OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.

ISlowA The internal standard associated with this analyte fails the method criteria on the low side. Results may be biased high.

CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.

A-01 Surrogate recovery is outside of the in-house generated control limits, but within the 70-130 percent recovery range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

06 September 2016

RE: San Luis Obispo

Work Order: 1603193

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 24-Aug-16 17:09 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Meredith Sprister".

Meredith Sprister

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:58
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-04-35	1603193-01	Water	24-Aug-16 15:20	24-Aug-16 17:09
#13 081016-13	1603193-02	Water	24-Aug-16 15:20	24-Aug-16 17:09



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

SB-04-35
1603193-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	"
Bromochloromethane	ND	0.50	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	"
Bromoform	ND	0.50	"	"	"	"	"	"	"
Bromomethane	ND	0.50	"	"	"	"	"	"	"
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	0.50	"	"	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"	"	"
Chloroform	ND	0.50	"	"	"	"	"	"	"
Chloromethane	ND	0.50	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	"
Dibromomethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	"

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

SB-04-35
1603193-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	"
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	"
Methylene chloride	ND	0.50	"	"	"	"	"	"	"
Naphthalene	ND	0.50	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	"
Styrene	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
Vinyl chloride	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	"
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	"
Iodomethane	ND	1.0	"	"	"	"	"	"	"
Acetone	23	5.0	"	"	"	"	"	"	"
Carbon disulfide	ND	1.0	"	"	"	"	"	"	"
Acrylonitrile	ND	10	"	"	"	"	"	"	"
Vinyl acetate	ND	2.0	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	"
2-Hexanone	1.3	0.50	"	"	"	"	"	"	"
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	"

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

SB-04-35
1603193-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

t-Butyl alcohol	ND	10	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	"
Ethanol	ND	500	"	"	"	"	"	"	"
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	"
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		102 %	89-115		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		91.6 %	75-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	80-116		"	"	"	"	"

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#13 081016-13
1603193-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

#13 081016-13
1603193-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:58
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#13 081016-13
1603193-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	98.6 %	89-115			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	87.3 %	75-117			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	85.8 %	80-116			"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:58
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>101</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>94.5</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>98.3</i>	<i>80-116</i>				

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

LCS (B6H0694-BS1)		Prepared & Analyzed: 26-Aug-16								
Benzene	26.9	0.50	ug/L	25.0		108	84-118			
Chlorobenzene	27.4	0.50	"	25.0		109	88-122			
1,1-Dichloroethene	28.9	0.50	"	25.0		116	69-135			
Toluene	26.5	0.50	"	25.0		106	76-122			
Trichloroethene (TCE)	26.8	0.50	"	25.0		107	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.7</i>		<i>"</i>	<i>12.5</i>		<i>93.9</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.1</i>	<i>80-116</i>			

LCS Dup (B6H0694-BSD1)		Prepared & Analyzed: 26-Aug-16								
Benzene	27.6	0.50	ug/L	25.0		110	84-118	2.39	20	
Chlorobenzene	28.5	0.50	"	25.0		114	88-122	4.15	20	
1,1-Dichloroethene	29.4	0.50	"	25.0		118	69-135	1.78	20	
Toluene	26.7	0.50	"	25.0		107	76-122	0.789	20	
Trichloroethene (TCE)	27.4	0.50	"	25.0		109	85-119	1.92	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.3</i>		<i>"</i>	<i>12.5</i>		<i>90.3</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.2</i>		<i>"</i>	<i>12.5</i>		<i>97.8</i>	<i>80-116</i>			

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16								
Benzene	ND	0.50	ug/L		ND					20
Bromobenzene	ND	0.50	"		ND					20
Bromochloromethane	ND	0.50	"		ND					20
Bromodichloromethane	ND	0.50	"		ND					20
Bromoform	ND	0.50	"		ND					20
Bromomethane	ND	0.50	"		ND					20
n-Butylbenzene	ND	0.50	"		ND					20
sec-Butylbenzene	ND	0.50	"		ND					20
tert-Butylbenzene	ND	0.50	"		ND					20
Carbon tetrachloride	ND	0.50	"		ND					20
Chlorobenzene	ND	0.50	"		ND					20
Chloroethane	ND	0.50	"		ND					20
Chloroform	ND	0.50	"		ND					20
Chloromethane	ND	0.50	"		ND					20
2-Chlorotoluene	ND	0.50	"		ND					20
4-Chlorotoluene	ND	0.50	"		ND					20
1,2-Dibromo-3-chloropropane	ND	1.0	"		ND					20
Dibromochloromethane	ND	0.50	"		ND					20
Dibromomethane	ND	0.50	"		ND					20
1,2-Dichlorobenzene	ND	0.50	"		ND					20
1,3-Dichlorobenzene	ND	0.50	"		ND					20

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Duplicate (B6H0694-DUP1)

Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16

1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1				Prepared & Analyzed: 26-Aug-16				
Acetone	ND	5.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	12.7		"	12.5		102	89-115			
<i>Surrogate: Toluene-d8</i>	11.8		"	12.5		94.0	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.1		"	12.5		96.8	80-116			

Matrix Spike (B6H0694-MS1)		Source: 1603193-01RE1				Prepared & Analyzed: 26-Aug-16		OTWN		
Benzene	24.6	0.50	ug/L	25.0	ND	98.3	84-117			
Chlorobenzene	23.1	0.50	"	25.0	ND	92.2	86-120			
1,1-Dichloroethene	25.6	0.50	"	25.0	ND	103	68-137			
Toluene	24.4	0.50	"	25.0	ND	97.7	66-126			
Trichloroethene (TCE)	23.2	0.50	"	25.0	ND	92.7	80-120			
<i>Surrogate: Dibromofluoromethane</i>	11.7		"	12.5		93.4	89-115			
<i>Surrogate: Toluene-d8</i>	12.4		"	12.5		99.6	75-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	12.5		109	80-116			

Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)		Prepared & Analyzed: 03-Sep-16								
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Prepared & Analyzed: 03-Sep-16

Blank (B6I0066-BLK1)

Chloroform	ND	0.50	ug/L							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:58
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610066 - EPA 5030B VOCCMS

Blank (B610066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Trichlorofluoromethane	ND	0.50	ug/L							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							

Surrogate: Dibromofluoromethane	13.0	"	12.5	104	89-115
Surrogate: Toluene-d8	10.3	"	12.5	82.4	75-117
Surrogate: 4-Bromofluorobenzene	11.9	"	12.5	95.3	80-116

LCS (B610066-BS1)				Prepared & Analyzed: 03-Sep-16						
Benzene	23.8	0.50	ug/L	25.0	95.3	84-118				
Chlorobenzene	27.1	0.50	"	25.0	108	88-122				
1,1-Dichloroethene	24.8	0.50	"	25.0	99.1	69-135				
Toluene	22.3	0.50	"	25.0	89.1	76-122				
Trichloroethene (TCE)	24.8	0.50	"	25.0	99.0	85-119				

Surrogate: Dibromofluoromethane	11.8	"	12.5	94.6	89-115
Surrogate: Toluene-d8	10.3	"	12.5	82.1	75-117
Surrogate: 4-Bromofluorobenzene	11.6	"	12.5	92.6	80-116

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:58
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610066 - EPA 5030B VOCCMS

LCS Dup (B610066-BSD1)				Prepared & Analyzed: 03-Sep-16						
Benzene	25.0	0.50	ug/L	25.0	100	84-118	4.91	20		
Chlorobenzene	27.1	0.50	"	25.0	108	88-122	0.0369	20		
1,1-Dichloroethene	25.0	0.50	"	25.0	99.8	69-135	0.724	20		
Toluene	23.8	0.50	"	25.0	95.2	76-122	6.60	20		
Trichloroethene (TCE)	25.8	0.50	"	25.0	103	85-119	3.96	20		
<i>Surrogate: Dibromofluoromethane</i>	<i>12.9</i>		<i>"</i>	<i>12.5</i>	<i>103</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.0</i>		<i>"</i>	<i>12.5</i>	<i>88.2</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>	<i>94.9</i>	<i>80-116</i>				

Duplicate (B610066-DUP1)		Source: 1603218-03		Prepared & Analyzed: 03-Sep-16						
Benzene	ND	0.50	ug/L	ND					20	
Bromobenzene	ND	0.50	"	ND					20	
Bromochloromethane	ND	0.50	"	ND					20	
Bromodichloromethane	ND	0.50	"	ND					20	
Bromoform	ND	0.50	"	ND					20	
Bromomethane	ND	0.50	"	ND					20	
n-Butylbenzene	ND	0.50	"	ND					20	
sec-Butylbenzene	ND	0.50	"	ND					20	
tert-Butylbenzene	ND	0.50	"	ND					20	
Carbon tetrachloride	ND	0.50	"	ND					20	
Chlorobenzene	ND	0.50	"	ND					20	
Chloroethane	ND	0.50	"	ND					20	
Chloroform	ND	0.50	"	ND					20	
Chloromethane	ND	0.50	"	ND					20	
2-Chlorotoluene	ND	0.50	"	ND					20	
4-Chlorotoluene	ND	0.50	"	ND					20	
1,2-Dibromo-3-chloropropane	ND	1.0	"	ND					20	
Dibromochloromethane	ND	0.50	"	ND					20	
Dibromomethane	ND	0.50	"	ND					20	
1,2-Dichlorobenzene	ND	0.50	"	ND					20	
1,3-Dichlorobenzene	ND	0.50	"	ND					20	
1,4-Dichlorobenzene	ND	0.50	"	ND					20	
Dichlorodifluoromethane	ND	0.50	"	ND					20	
1,1-Dichloroethane	ND	0.50	"	ND					20	
1,2-Dichloroethane	ND	0.50	"	ND					20	
1,1-Dichloroethene	ND	0.50	"	ND					20	
cis-1,2-Dichloroethene	ND	0.50	"	ND					20	
trans-1,2-Dichloroethene	ND	0.50	"	ND					20	
1,2-Dichloropropane	ND	0.50	"	ND					20	
1,3-Dichloropropane	ND	0.50	"	ND					20	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:58
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
2,2-Dichloropropane	ND	0.50	ug/L		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	
Acetone	ND	5.0	"		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 14:58
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
Ethanol	ND	500	ug/L		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
Surrogate: Dibromofluoromethane	13.7		"	12.5		110	89-115			
Surrogate: Toluene-d8	10.7		"	12.5		85.5	75-117			
Surrogate: 4-Bromofluorobenzene	11.8		"	12.5		94.3	80-116			

Matrix Spike (B6I0066-MS1)	Source: 1603273-01			Prepared: 03-Sep-16 Analyzed: 04-Sep-16						OTWN
Benzene	23.4	0.50	ug/L	25.0	ND	93.6	84-117			
Chlorobenzene	26.9	0.50	"	25.0	ND	107	86-120			
1,1-Dichloroethene	24.3	0.50	"	25.0	ND	97.0	68-137			
Toluene	23.3	0.50	"	25.0	ND	93.2	66-126			
Trichloroethene (TCE)	23.8	0.50	"	25.0	ND	95.4	80-120			
Surrogate: Dibromofluoromethane	12.7		"	12.5		102	89-115			
Surrogate: Toluene-d8	10.6		"	12.5		84.5	75-117			
Surrogate: 4-Bromofluorobenzene	9.41		"	12.5		75.3	80-116			A-01



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 14:58

Notes and Definitions

OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.

ISlowA The internal standard associated with this analyte fails the method criteria on the low side. Results may be biased high.

CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.

A-01 Surrogate recovery is outside of the in-house generated control limits, but within the 70-130 percent recovery range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

06 September 2016

RE: San Luis Obispo

Work Order: 1603218

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 25-Aug-16 15:45 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Meredith Sprister". The signature is written in a cursive, flowing style.

Meredith Sprister

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-04-64	1603218-01	Water	25-Aug-16 11:55	25-Aug-16 15:45
SB-04-64-D	1603218-02	Water	25-Aug-16 11:55	25-Aug-16 15:45
SB-04-64-EB	1603218-03	Water	25-Aug-16 11:55	25-Aug-16 15:45
#14 081016-14	1603218-04	Water	25-Aug-16 11:55	25-Aug-16 15:45



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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SB-04-64
1603218-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

SB-04-64
1603218-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	"
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	"
Methylene chloride	ND	0.50	"	"	"	"	"	"	"
Naphthalene	ND	0.50	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	"
Styrene	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	"
Vinyl chloride	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	"
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	"
Iodomethane	ND	1.0	"	"	"	"	"	"	"
Acetone	5.7	5.0	"	"	"	"	"	"	"
Carbon disulfide	ND	1.0	"	"	"	"	"	"	"
Acrylonitrile	ND	10	"	"	"	"	"	"	"
Vinyl acetate	ND	2.0	"	"	"	"	"	"	"
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	"
2-Hexanone	ND	0.50	"	"	"	"	"	"	"
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	"

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

SB-04-64
1603218-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

t-Butyl alcohol	ND	10	ug/L	1	B6H0694	26-Aug-16	26-Aug-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.8 %	80-116		"	"	"	"	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

SB-04-64-D
1603218-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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SB-04-64-D
1603218-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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SB-04-64-D
1603218-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		101 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		84.2 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.1 %	80-116		"	"	"	"	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

SB-04-64-EB
1603218-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

SB-04-64-EB
1603218-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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SB-04-64-EB
1603218-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	99.9 %	89-115			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	82.4 %	75-117			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.7 %	80-116			"	"	"	"	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

#14 081016-14
1603218-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

#14 081016-14
1603218-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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#14 081016-14
1603218-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B
<i>Surrogate: Dibromofluoromethane</i>	108 %	89-115			"	"	"	"
<i>Surrogate: Toluene-d8</i>	84.4 %	75-117			"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	98.6 %	80-116			"	"	"	"

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Blank (B6H0694-BLK1)				Prepared & Analyzed: 26-Aug-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>101</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>94.5</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>98.3</i>	<i>80-116</i>				

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

LCS (B6H0694-BS1)		Prepared & Analyzed: 26-Aug-16								
Benzene	26.9	0.50	ug/L	25.0		108	84-118			
Chlorobenzene	27.4	0.50	"	25.0		109	88-122			
1,1-Dichloroethene	28.9	0.50	"	25.0		116	69-135			
Toluene	26.5	0.50	"	25.0		106	76-122			
Trichloroethene (TCE)	26.8	0.50	"	25.0		107	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.7</i>		<i>"</i>	<i>12.5</i>		<i>93.9</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.1</i>	<i>80-116</i>			

LCS Dup (B6H0694-BSD1)		Prepared & Analyzed: 26-Aug-16								
Benzene	27.6	0.50	ug/L	25.0		110	84-118	2.39	20	
Chlorobenzene	28.5	0.50	"	25.0		114	88-122	4.15	20	
1,1-Dichloroethene	29.4	0.50	"	25.0		118	69-135	1.78	20	
Toluene	26.7	0.50	"	25.0		107	76-122	0.789	20	
Trichloroethene (TCE)	27.4	0.50	"	25.0		109	85-119	1.92	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.6</i>		<i>"</i>	<i>12.5</i>		<i>101</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.3</i>		<i>"</i>	<i>12.5</i>		<i>90.3</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.2</i>		<i>"</i>	<i>12.5</i>		<i>97.8</i>	<i>80-116</i>			

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16								
Benzene	ND	0.50	ug/L		ND					20
Bromobenzene	ND	0.50	"		ND					20
Bromochloromethane	ND	0.50	"		ND					20
Bromodichloromethane	ND	0.50	"		ND					20
Bromoform	ND	0.50	"		ND					20
Bromomethane	ND	0.50	"		ND					20
n-Butylbenzene	ND	0.50	"		ND					20
sec-Butylbenzene	ND	0.50	"		ND					20
tert-Butylbenzene	ND	0.50	"		ND					20
Carbon tetrachloride	ND	0.50	"		ND					20
Chlorobenzene	ND	0.50	"		ND					20
Chloroethane	ND	0.50	"		ND					20
Chloroform	ND	0.50	"		ND					20
Chloromethane	ND	0.50	"		ND					20
2-Chlorotoluene	ND	0.50	"		ND					20
4-Chlorotoluene	ND	0.50	"		ND					20
1,2-Dibromo-3-chloropropane	ND	1.0	"		ND					20
Dibromochloromethane	ND	0.50	"		ND					20
Dibromomethane	ND	0.50	"		ND					20
1,2-Dichlorobenzene	ND	0.50	"		ND					20
1,3-Dichlorobenzene	ND	0.50	"		ND					20

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCGCMS

Duplicate (B6H0694-DUP1)

Source: 1603170-01RE1 Prepared & Analyzed: 26-Aug-16

1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Acetone	ND	5.0	"		ND				20	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0694 - EPA 5030B VOCCMS

Duplicate (B6H0694-DUP1)		Source: 1603170-01RE1		Prepared & Analyzed: 26-Aug-16						
Iodomethane	ND	1.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.7</i>		<i>"</i>	<i>12.5</i>		<i>102</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.0</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.1</i>		<i>"</i>	<i>12.5</i>		<i>96.8</i>	<i>80-116</i>			

Matrix Spike (B6H0694-MS1)		Source: 1603193-01RE1		Prepared & Analyzed: 26-Aug-16		OTWN	
Benzene	24.6	0.50	ug/L	25.0	ND	98.3	84-117
Chlorobenzene	23.1	0.50	"	25.0	ND	92.2	86-120
1,1-Dichloroethene	25.6	0.50	"	25.0	ND	103	68-137
Toluene	24.4	0.50	"	25.0	ND	97.7	66-126
Trichloroethene (TCE)	23.2	0.50	"	25.0	ND	92.7	80-120
<i>Surrogate: Dibromofluoromethane</i>	<i>11.7</i>		<i>"</i>	<i>12.5</i>		<i>93.4</i>	<i>89-115</i>
<i>Surrogate: Toluene-d8</i>	<i>12.4</i>		<i>"</i>	<i>12.5</i>		<i>99.6</i>	<i>75-117</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.7</i>		<i>"</i>	<i>12.5</i>		<i>109</i>	<i>80-116</i>

Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)		Prepared & Analyzed: 03-Sep-16	
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	"
Bromochloromethane	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	0.50	"
n-Butylbenzene	ND	0.50	"
sec-Butylbenzene	ND	0.50	"
tert-Butylbenzene	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"

Oilfield Environmental and Compliance

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FAX: (805) 925-3376



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)	Prepared & Analyzed: 03-Sep-16									
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610066 - EPA 5030B VOCCMS

Blank (B610066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Trichlorofluoromethane	ND	0.50	ug/L							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							

<i>Surrogate: Dibromofluoromethane</i>	13.0	"	12.5	104	89-115
<i>Surrogate: Toluene-d8</i>	10.3	"	12.5	82.4	75-117
<i>Surrogate: 4-Bromofluorobenzene</i>	11.9	"	12.5	95.3	80-116

LCS (B610066-BS1)				Prepared & Analyzed: 03-Sep-16						
Benzene	23.8	0.50	ug/L	25.0	95.3	84-118				
Chlorobenzene	27.1	0.50	"	25.0	108	88-122				
1,1-Dichloroethene	24.8	0.50	"	25.0	99.1	69-135				
Toluene	22.3	0.50	"	25.0	89.1	76-122				
Trichloroethene (TCE)	24.8	0.50	"	25.0	99.0	85-119				

<i>Surrogate: Dibromofluoromethane</i>	11.8	"	12.5	94.6	89-115
<i>Surrogate: Toluene-d8</i>	10.3	"	12.5	82.1	75-117
<i>Surrogate: 4-Bromofluorobenzene</i>	11.6	"	12.5	92.6	80-116

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610066 - EPA 5030B VOCCMS

LCS Dup (B610066-BSD1)				Prepared & Analyzed: 03-Sep-16						
Benzene	25.0	0.50	ug/L	25.0	100	84-118	4.91	20		
Chlorobenzene	27.1	0.50	"	25.0	108	88-122	0.0369	20		
1,1-Dichloroethene	25.0	0.50	"	25.0	99.8	69-135	0.724	20		
Toluene	23.8	0.50	"	25.0	95.2	76-122	6.60	20		
Trichloroethene (TCE)	25.8	0.50	"	25.0	103	85-119	3.96	20		
<i>Surrogate: Dibromofluoromethane</i>	<i>12.9</i>		<i>"</i>	<i>12.5</i>	<i>103</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>11.0</i>		<i>"</i>	<i>12.5</i>	<i>88.2</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>	<i>94.9</i>	<i>80-116</i>				

Duplicate (B610066-DUP1)		Source: 1603218-03			Prepared & Analyzed: 03-Sep-16					
Benzene	ND	0.50	ug/L	ND						20
Bromobenzene	ND	0.50	"	ND						20
Bromochloromethane	ND	0.50	"	ND						20
Bromodichloromethane	ND	0.50	"	ND						20
Bromoform	ND	0.50	"	ND						20
Bromomethane	ND	0.50	"	ND						20
n-Butylbenzene	ND	0.50	"	ND						20
sec-Butylbenzene	ND	0.50	"	ND						20
tert-Butylbenzene	ND	0.50	"	ND						20
Carbon tetrachloride	ND	0.50	"	ND						20
Chlorobenzene	ND	0.50	"	ND						20
Chloroethane	ND	0.50	"	ND						20
Chloroform	ND	0.50	"	ND						20
Chloromethane	ND	0.50	"	ND						20
2-Chlorotoluene	ND	0.50	"	ND						20
4-Chlorotoluene	ND	0.50	"	ND						20
1,2-Dibromo-3-chloropropane	ND	1.0	"	ND						20
Dibromochloromethane	ND	0.50	"	ND						20
Dibromomethane	ND	0.50	"	ND						20
1,2-Dichlorobenzene	ND	0.50	"	ND						20
1,3-Dichlorobenzene	ND	0.50	"	ND						20
1,4-Dichlorobenzene	ND	0.50	"	ND						20
Dichlorodifluoromethane	ND	0.50	"	ND						20
1,1-Dichloroethane	ND	0.50	"	ND						20
1,2-Dichloroethane	ND	0.50	"	ND						20
1,1-Dichloroethene	ND	0.50	"	ND						20
cis-1,2-Dichloroethene	ND	0.50	"	ND						20
trans-1,2-Dichloroethene	ND	0.50	"	ND						20
1,2-Dichloropropane	ND	0.50	"	ND						20
1,3-Dichloropropane	ND	0.50	"	ND						20

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
2,2-Dichloropropane	ND	0.50	ug/L		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Acetone	ND	5.0	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:00
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
Ethanol	ND	500	ug/L		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	<i>13.7</i>		<i>"</i>	<i>12.5</i>		<i>110</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>12.5</i>		<i>85.5</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.3</i>	<i>80-116</i>			

Matrix Spike (B6I0066-MS1)	Source: 1603273-01			Prepared: 03-Sep-16 Analyzed: 04-Sep-16						OTWN
Benzene	23.4	0.50	ug/L	25.0	ND	93.6	84-117			
Chlorobenzene	26.9	0.50	"	25.0	ND	107	86-120			
1,1-Dichloroethene	24.3	0.50	"	25.0	ND	97.0	68-137			
Toluene	23.3	0.50	"	25.0	ND	93.2	66-126			
Trichloroethene (TCE)	23.8	0.50	"	25.0	ND	95.4	80-120			
<i>Surrogate: Dibromofluoromethane</i>	<i>12.7</i>		<i>"</i>	<i>12.5</i>		<i>102</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.6</i>		<i>"</i>	<i>12.5</i>		<i>84.5</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>9.41</i>		<i>"</i>	<i>12.5</i>		<i>75.3</i>	<i>80-116</i>			<i>A-01</i>



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:00

Notes and Definitions

OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.

CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.

A-01 Surrogate recovery is outside of the in-house generated control limits, but within the 70-130 percent recovery range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CLIENT: RouxWORK ORDER: 1603218TEMPERATURE: 6 °C
Acceptable Range: 0°C to 6°C [see exception notes below]

SAMPLE RECEIPT

COC RECEIVED DATE/TIME: 8-25-16 1545LOGIN DATE/TIME: 8-25-16 1634REFRIGERATOR(S): 3

SAMPLE TRANSPORT

- OEC Courier/Sampler
- Delivery (Other than OEC)
- After-Hours Outside Drop-Off [Brought Inside]
- Initials/Date/Time: _____
- Shipment Carrier: _____
- Tracking #: _____

CUSTODY SEALS

 None PresentCooler(s): Present, Intact Present, Not Intact NoneSample(s): Present, Intact Present, Not Intact None

SAMPLE RECEIPT, CONDITION, PRESERVATION

- Samples Received on Ice Within Temperature Range [Acceptable]
- Samples Received Outside Temperature Range [Acceptable]
- Direct from Field, on Ice
- Ambient: Air or Filter Matrix
- Received Ambient, Placed on Ice for Transport
- Sample Temperature Acceptable for Analysis Requested
- Samples Received Outside Temperature Range [Exception]
- Insufficient Ice or Unknown Cause
- See Problem Chain *

(*) PROBLEM CHAIN REQUIRED

- | | YES | NO | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Completed COC(s) Received With Samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Correct Container(s) for Analysis Requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Container(s) Intact and in Good Condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Container Label(s) Consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper Preservation on Sample Label(s) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| OEC Preservative Added ** | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| VOA Containers Free of Headspace | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Tedlar Bag(s) Free of Condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- * OR (Comments) Expedited PM Notification [Intr/Date/Time]: _____

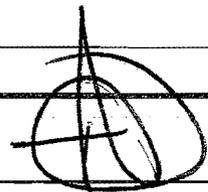
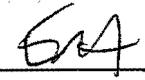
(**) OEC PRES. ID

* See Comments below or Problem Chain

CONTAINERS, COC CHANGES, AND/OR CORRECTIONS

OEC CONTAINER ID	CONTAINER DESCRIPTION	PRESERVATIVE	CHECKS: Cl ⁻ , S ⁻ &/or pH	MATRIX	COMMENTS	INITIALS
1-2 A-C	3-40 mL Ueas ea	HCT	-	w		
3 A-B	2-40 mL Ueas ea	↓	↓	↓		
4 A	40 mL Ueas	↓	↓	↓	Headspace - Trip blank	

Rev. 02/12/2016

RECEIPT LOGIN BY: RECEIPT REVIEWED BY: Page 1 of 1



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

06 September 2016

RE: San Luis Obispo

Work Order: 1603272

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 29-Aug-16 11:50 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Meredith Sprister". The signature is written in a cursive, flowing style.

Meredith Sprister

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-03-97.5	1603272-01	GW	29-Aug-16 10:02	29-Aug-16 11:50
SB-03-97.5-EB	1603272-02	Aqueous	29-Aug-16 08:25	29-Aug-16 11:50
#11-081016-11	1603272-03	Aqueous	29-Aug-16 10:02	29-Aug-16 11:50



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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SB-03-97.5
1603272-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

HDSP

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	1.4	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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SB-03-97.5
1603272-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

HDSP

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	2.0	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	8.8	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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SB-03-97.5
1603272-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

HDSP

t-Butyl alcohol	ND	10	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.5 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		84.6 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		64.3 %	80-116		"	"	"	"	S-GC

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SB-03-97.5-EB
1603272-02 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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SB-03-97.5-EB
1603272-02 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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SB-03-97.5-EB
1603272-02 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		101 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		83.0 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.0 %	80-116		"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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#11-081016-11
1603272-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:03

#11-081016-11
1603272-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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#11-081016-11
1603272-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	95.0 %	89-115			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	96.3 %	75-117			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.8 %	80-116			"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>13.0</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>104</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>82.4</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>95.3</i>	<i>80-116</i>				

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

LCS (B6I0066-BS1)		Prepared & Analyzed: 03-Sep-16								
Benzene	23.8	0.50	ug/L	25.0		95.3	84-118			
Chlorobenzene	27.1	0.50	"	25.0		108	88-122			
1,1-Dichloroethene	24.8	0.50	"	25.0		99.1	69-135			
Toluene	22.3	0.50	"	25.0		89.1	76-122			
Trichloroethene (TCE)	24.8	0.50	"	25.0		99.0	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>11.8</i>		"	<i>12.5</i>		<i>94.6</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.3</i>		"	<i>12.5</i>		<i>82.1</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.6</i>		"	<i>12.5</i>		<i>92.6</i>	<i>80-116</i>			

LCS Dup (B6I0066-BSD1)		Prepared & Analyzed: 03-Sep-16								
Benzene	25.0	0.50	ug/L	25.0		100	84-118	4.91	20	
Chlorobenzene	27.1	0.50	"	25.0		108	88-122	0.0369	20	
1,1-Dichloroethene	25.0	0.50	"	25.0		99.8	69-135	0.724	20	
Toluene	23.8	0.50	"	25.0		95.2	76-122	6.60	20	
Trichloroethene (TCE)	25.8	0.50	"	25.0		103	85-119	3.96	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.9</i>		"	<i>12.5</i>		<i>103</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.0</i>		"	<i>12.5</i>		<i>88.2</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		"	<i>12.5</i>		<i>94.9</i>	<i>80-116</i>			

Duplicate (B6I0066-DUP1)		Source: 1603218-03			Prepared & Analyzed: 03-Sep-16					
Benzene	ND	0.50	ug/L			ND				20
Bromobenzene	ND	0.50	"			ND				20
Bromochloromethane	ND	0.50	"			ND				20
Bromodichloromethane	ND	0.50	"			ND				20
Bromoform	ND	0.50	"			ND				20
Bromomethane	ND	0.50	"			ND				20
n-Butylbenzene	ND	0.50	"			ND				20
sec-Butylbenzene	ND	0.50	"			ND				20
tert-Butylbenzene	ND	0.50	"			ND				20
Carbon tetrachloride	ND	0.50	"			ND				20
Chlorobenzene	ND	0.50	"			ND				20
Chloroethane	ND	0.50	"			ND				20
Chloroform	ND	0.50	"			ND				20
Chloromethane	ND	0.50	"			ND				20
2-Chlorotoluene	ND	0.50	"			ND				20
4-Chlorotoluene	ND	0.50	"			ND				20
1,2-Dibromo-3-chloropropane	ND	1.0	"			ND				20
Dibromochloromethane	ND	0.50	"			ND				20
Dibromomethane	ND	0.50	"			ND				20
1,2-Dichlorobenzene	ND	0.50	"			ND				20
1,3-Dichlorobenzene	ND	0.50	"			ND				20

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:03
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
Acetone	ND	5.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
Surrogate: Dibromofluoromethane	13.7		"	12.5		110	89-115			
Surrogate: Toluene-d8	10.7		"	12.5		85.5	75-117			
Surrogate: 4-Bromofluorobenzene	11.8		"	12.5		94.3	80-116			

Matrix Spike (B6I0066-MS1)	Source: 1603273-01			Prepared: 03-Sep-16 Analyzed: 04-Sep-16				OTWN
Benzene	23.4	0.50	ug/L	25.0	ND	93.6	84-117	
Chlorobenzene	26.9	0.50	"	25.0	ND	107	86-120	
1,1-Dichloroethene	24.3	0.50	"	25.0	ND	97.0	68-137	
Toluene	23.3	0.50	"	25.0	ND	93.2	66-126	
Trichloroethene (TCE)	23.8	0.50	"	25.0	ND	95.4	80-120	
Surrogate: Dibromofluoromethane	12.7		"	12.5		102	89-115	
Surrogate: Toluene-d8	10.6		"	12.5		84.5	75-117	
Surrogate: 4-Bromofluorobenzene	9.41		"	12.5		75.3	80-116	A-01



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:03

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
- OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.
- ISlowA The internal standard associated with this analyte fails the method criteria on the low side. Results may be biased high.
- HDSP Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
- CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.
- A-01 Surrogate recovery is outside of the in-house generated control limits, but within the 70-130 percent recovery range
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

06 September 2016

RE: San Luis Obispo

Work Order: 1603273

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 29-Aug-16 11:50 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Meredith Sprister". The signature is written in a cursive, flowing style.

Meredith Sprister

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-03-41	1603273-01	GW	27-Aug-16 09:10	29-Aug-16 11:50
SB-03-41-EB	1603273-02	AQ	27-Aug-16 09:25	29-Aug-16 11:50
SB-03-41-D	1603273-03	GW	27-Aug-16 09:10	29-Aug-16 11:50
SB-03-65	1603273-04	GW	28-Aug-16 08:52	29-Aug-16 11:50
SB-03-65-EB	1603273-05	AQ	28-Aug-16 09:08	29-Aug-16 11:50



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-41
1603273-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-41
1603273-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-41
1603273-01 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

t-Butyl alcohol	ND	10	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		93.4 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		88.9 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.1 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:06

SB-03-41-EB
1603273-02 (AQ)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-41-EB
1603273-02 (AQ)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-41-EB
1603273-02 (AQ)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		112 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.9 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.8 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:06

SB-03-41-D
1603273-03 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:06

SB-03-41-D
1603273-03 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-41-D
1603273-03 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		102 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		82.6 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.8 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:06

SB-03-65
1603273-04 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:06

SB-03-65
1603273-04 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-65
1603273-04 (GW)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B
<i>Surrogate: Dibromofluoromethane</i>	90.4 %	89-115			"	"	"	"
<i>Surrogate: Toluene-d8</i>	87.6 %	75-117			"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	95.0 %	80-116			"	"	"	"

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:06

SB-03-65-EB
1603273-05 (AQ)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-65-EB
1603273-05 (AQ)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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SB-03-65-EB
1603273-05 (AQ)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		110 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.8 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.8 %	80-116		"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>13.0</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>104</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>82.4</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>95.3</i>	<i>80-116</i>				

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

LCS (B6I0066-BS1)		Prepared & Analyzed: 03-Sep-16								
Benzene	23.8	0.50	ug/L	25.0		95.3	84-118			
Chlorobenzene	27.1	0.50	"	25.0		108	88-122			
1,1-Dichloroethene	24.8	0.50	"	25.0		99.1	69-135			
Toluene	22.3	0.50	"	25.0		89.1	76-122			
Trichloroethene (TCE)	24.8	0.50	"	25.0		99.0	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.6</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.3</i>		<i>"</i>	<i>12.5</i>		<i>82.1</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.6</i>		<i>"</i>	<i>12.5</i>		<i>92.6</i>	<i>80-116</i>			

LCS Dup (B6I0066-BSD1)		Prepared & Analyzed: 03-Sep-16								
Benzene	25.0	0.50	ug/L	25.0		100	84-118	4.91	20	
Chlorobenzene	27.1	0.50	"	25.0		108	88-122	0.0369	20	
1,1-Dichloroethene	25.0	0.50	"	25.0		99.8	69-135	0.724	20	
Toluene	23.8	0.50	"	25.0		95.2	76-122	6.60	20	
Trichloroethene (TCE)	25.8	0.50	"	25.0		103	85-119	3.96	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.9</i>		<i>"</i>	<i>12.5</i>		<i>103</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.0</i>		<i>"</i>	<i>12.5</i>		<i>88.2</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>94.9</i>	<i>80-116</i>			

Duplicate (B6I0066-DUP1)		Source: 1603218-03		Prepared & Analyzed: 03-Sep-16						
Benzene	ND	0.50	ug/L			ND				20
Bromobenzene	ND	0.50	"			ND				20
Bromochloromethane	ND	0.50	"			ND				20
Bromodichloromethane	ND	0.50	"			ND				20
Bromoform	ND	0.50	"			ND				20
Bromomethane	ND	0.50	"			ND				20
n-Butylbenzene	ND	0.50	"			ND				20
sec-Butylbenzene	ND	0.50	"			ND				20
tert-Butylbenzene	ND	0.50	"			ND				20
Carbon tetrachloride	ND	0.50	"			ND				20
Chlorobenzene	ND	0.50	"			ND				20
Chloroethane	ND	0.50	"			ND				20
Chloroform	ND	0.50	"			ND				20
Chloromethane	ND	0.50	"			ND				20
2-Chlorotoluene	ND	0.50	"			ND				20
4-Chlorotoluene	ND	0.50	"			ND				20
1,2-Dibromo-3-chloropropane	ND	1.0	"			ND				20
Dibromochloromethane	ND	0.50	"			ND				20
Dibromomethane	ND	0.50	"			ND				20
1,2-Dichlorobenzene	ND	0.50	"			ND				20
1,3-Dichlorobenzene	ND	0.50	"			ND				20

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VO CGCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
Acetone	ND	5.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
Surrogate: Dibromofluoromethane	13.7		"	12.5		110	89-115			
Surrogate: Toluene-d8	10.7		"	12.5		85.5	75-117			
Surrogate: 4-Bromofluorobenzene	11.8		"	12.5		94.3	80-116			

Matrix Spike (B6I0066-MS1)	Source: 1603273-01			Prepared: 03-Sep-16 Analyzed: 04-Sep-16				OTWN
Benzene	23.4	0.50	ug/L	25.0	ND	93.6	84-117	
Chlorobenzene	26.9	0.50	"	25.0	ND	107	86-120	
1,1-Dichloroethene	24.3	0.50	"	25.0	ND	97.0	68-137	
Toluene	23.3	0.50	"	25.0	ND	93.2	66-126	
Trichloroethene (TCE)	23.8	0.50	"	25.0	ND	95.4	80-120	
Surrogate: Dibromofluoromethane	12.7		"	12.5		102	89-115	
Surrogate: Toluene-d8	10.6		"	12.5		84.5	75-117	
Surrogate: 4-Bromofluorobenzene	9.41		"	12.5		75.3	80-116	A-01



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:06
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Notes and Definitions

- OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.
- ISlowA The internal standard associated with this analyte fails the method criteria on the low side. Results may be biased high.
- CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.
- A-01 Surrogate recovery is outside of the in-house generated control limits, but within the 70-130 percent recovery range
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



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Phone: (661) 762-9143

CHAIN OF CUSTODY

Page 1 of 1

Company: Roux Associates
 Address: 5150 Pacific Coast HWY #450
 City/State/ZIP: Long Beach CA 90804 amcnullm@co.sbc.com
 Phone: 310-879-4930 Fax: _____ E-mail: kjohnson@rouxinc.com
 Report To: Kateena Johnson Sampler: Kateena Johnson
 Report Format(s): FAX- PDF (std)- Col/LUFT EDF- EDD-
 Turnaround Time: 10 Days- 5 Days (std)- 3 Days- 2 Days- 1 Day- ASAP-
 NOTE: Samples received after 4:00PM will be considered as received the next business day

Project Name/ #: Confidential SLO County Counsel
 Site: San Luis Obispo

Analysis Requested: [Grid of 12 columns, mostly empty]
 Special Instructions: * results to have of county counsel

OEC Sample ID	Date/Time Sampled	Matrix** (see key)	# of Cont.	Client Sample ID													
<u>116032573</u>	<u>8/27/10</u>	<u>GW</u>	<u>3</u>	<u>SB-03-41</u>	<u>X</u>												<u>ASAP</u>
<u>2AC</u>	<u>8/27/10</u>	<u>AQ</u>	<u>3</u>	<u>SB-03-41-EB</u>	<u>X</u>												<u>5 DAY</u>
<u>3AC</u>	<u>8/27/10</u>	<u>GW</u>	<u>3</u>	<u>SB-03-41-D</u>	<u>X</u>												<u>5 DAY</u>
<u>4AC</u>	<u>8/28/10</u>	<u>GW</u>	<u>3</u>	<u>SB-03-65</u>	<u>X</u>												<u>ASAP</u>
<u>5AC</u>	<u>8/28/10</u>	<u>AQ</u>	<u>3</u>	<u>SB-03-65-EB</u>	<u>X</u>												<u>5 DAY</u>

1
82600 + oxy + appand

Relinquished By: Kateena Johnson Date: 8/28/10 Time: 0930
 Received By: [Signature] Date: 8/28/10 Time: 0930
 Relinquished By: [Signature] Date: 8/29/10 Time: 1110
 Received By: [Signature] @ OEC Date: 8-29-10 Time: 1110
 Relinquished By: [Signature] Date: 8-29-10 Time: 1150
 Received By: [Signature] Date: 08-29-10 Time: 1150

Matrix Key**:
 A = air / vapor
 AQ = aqueous
 DW = drinking water
 F = filter
 GW = ground water
 P = product / oil
 PW = product water
 S = solid / sediment
 SW = surface water
 WP = wipe
 WW = waste water

Comments/PO#: _____



Kaleena Johnson
Roux Associates, Inc.
209 Shafter Street
Islandia, NY 11749

06 September 2016

RE: San Luis Obispo

Work Order: 1603335

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 01-Sep-16 13:26 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Meredith Sprister". The signature is written in a cursive, flowing style.

Meredith Sprister

Project Manager



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
082318-22	1603335-01	Water	30-Aug-16 14:00	01-Sep-16 13:26
SB-05-35.5	1603335-02	Water	30-Aug-16 14:10	01-Sep-16 13:26
SB-05-35.5-D	1603335-03	Water	30-Aug-16 14:10	01-Sep-16 13:26
SB-05-68.5-EB	1603335-04	Water	31-Aug-16 12:00	01-Sep-16 13:26
SB-05-68.5	1603335-05	Water	01-Sep-16 10:05	01-Sep-16 13:26



Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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082318-22
1603335-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

HDSP

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/L	1	B6I0088	06-Sep-16	06-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	ISlowA
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:44

082318-22
1603335-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

HDSP

cis-1,3-Dichloropropene	ND	0.50	ug/L	1	B610088	06-Sep-16	06-Sep-16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	ISlowA
Ethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	ISlowA
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	ISlowA
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	ISlowA
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	ISlowA
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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082318-22
1603335-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

HDSP

t-Butyl alcohol	ND	10	ug/L	1	B6I0088	06-Sep-16	06-Sep-16	EPA 8260B	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.9 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		79.8 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.6 %	80-116		"	"	"	"	ISlowA

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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SB-05-35.5
1603335-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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SB-05-35.5
1603335-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610066	03-Sep-16	03-Sep-16	EPA 8260B	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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SB-05-35.5
1603335-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0066	03-Sep-16	03-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		104 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		87.9 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.7 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:44

SB-05-35.5-D
1603335-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610088	06-Sep-16	06-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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SB-05-35.5-D
1603335-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B6I0088	06-Sep-16	06-Sep-16	EPA 8260B	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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SB-05-35.5-D
1603335-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0088	06-Sep-16	06-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		102 %	89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.7 %	75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.4 %	80-116		"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:44

SB-05-68.5-EB
1603335-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/L	1	B610088	06-Sep-16	06-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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SB-05-68.5-EB
1603335-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610088	06-Sep-16	06-Sep-16	EPA 8260B	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	5.6	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:44

SB-05-68.5-EB
1603335-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0088	06-Sep-16	06-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	103 %		89-115		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	83.3 %		75-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	86.2 %		80-116		"	"	"	"	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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SB-05-68.5
1603335-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/L	1	B610088	06-Sep-16	06-Sep-16	EPA 8260B	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	ISlowA
Bromomethane	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	ISlowA
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:44

SB-05-68.5
1603335-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Hexachlorobutadiene	ND	0.50	ug/L	1	B610088	06-Sep-16	06-Sep-16	EPA 8260B	ISlowA
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	"	"	"	"	"	"	ISlowA
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	ISlowA
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	ISlowA
Tetrachloroethene (PCE)	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	ISlowA
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	10	"	"	"	"	"	"	
Iodomethane	ND	1.0	"	"	"	"	"	"	
Acetone	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Acrylonitrile	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	2.0	"	"	"	"	"	"	CCHI
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	0.50	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	0.50	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
Diisopropyl Ether	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	0.50	"	"	"	"	"	"	

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SB-05-68.5
1603335-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl-t-butyl ether	ND	0.50	ug/L	1	B6I0088	06-Sep-16	06-Sep-16	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	104 %	89-115			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	89.5 %	75-117			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	91.8 %	80-116			"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Blank (B6I0066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOEGCMS

Blank (B6I0066-BLK1)				Prepared & Analyzed: 03-Sep-16						
Naphthalene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>13.0</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>104</i>	<i>89-115</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.3</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>82.4</i>	<i>75-117</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>	<i>"</i>	<i>"</i>	<i>12.5</i>	<i>95.3</i>	<i>80-116</i>				

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

LCS (B6I0066-BS1)		Prepared & Analyzed: 03-Sep-16								
Benzene	23.8	0.50	ug/L	25.0		95.3	84-118			
Chlorobenzene	27.1	0.50	"	25.0		108	88-122			
1,1-Dichloroethene	24.8	0.50	"	25.0		99.1	69-135			
Toluene	22.3	0.50	"	25.0		89.1	76-122			
Trichloroethene (TCE)	24.8	0.50	"	25.0		99.0	85-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.6</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.3</i>		<i>"</i>	<i>12.5</i>		<i>82.1</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.6</i>		<i>"</i>	<i>12.5</i>		<i>92.6</i>	<i>80-116</i>			

LCS Dup (B6I0066-BSD1)		Prepared & Analyzed: 03-Sep-16								
Benzene	25.0	0.50	ug/L	25.0		100	84-118	4.91	20	
Chlorobenzene	27.1	0.50	"	25.0		108	88-122	0.0369	20	
1,1-Dichloroethene	25.0	0.50	"	25.0		99.8	69-135	0.724	20	
Toluene	23.8	0.50	"	25.0		95.2	76-122	6.60	20	
Trichloroethene (TCE)	25.8	0.50	"	25.0		103	85-119	3.96	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.9</i>		<i>"</i>	<i>12.5</i>		<i>103</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.0</i>		<i>"</i>	<i>12.5</i>		<i>88.2</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>94.9</i>	<i>80-116</i>			

Duplicate (B6I0066-DUP1)		Source: 1603218-03		Prepared & Analyzed: 03-Sep-16						
Benzene	ND	0.50	ug/L			ND				20
Bromobenzene	ND	0.50	"			ND				20
Bromochloromethane	ND	0.50	"			ND				20
Bromodichloromethane	ND	0.50	"			ND				20
Bromoform	ND	0.50	"			ND				20
Bromomethane	ND	0.50	"			ND				20
n-Butylbenzene	ND	0.50	"			ND				20
sec-Butylbenzene	ND	0.50	"			ND				20
tert-Butylbenzene	ND	0.50	"			ND				20
Carbon tetrachloride	ND	0.50	"			ND				20
Chlorobenzene	ND	0.50	"			ND				20
Chloroethane	ND	0.50	"			ND				20
Chloroform	ND	0.50	"			ND				20
Chloromethane	ND	0.50	"			ND				20
2-Chlorotoluene	ND	0.50	"			ND				20
4-Chlorotoluene	ND	0.50	"			ND				20
1,2-Dibromo-3-chloropropane	ND	1.0	"			ND				20
Dibromochloromethane	ND	0.50	"			ND				20
Dibromomethane	ND	0.50	"			ND				20
1,2-Dichlorobenzene	ND	0.50	"			ND				20
1,3-Dichlorobenzene	ND	0.50	"			ND				20

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0066 - EPA 5030B VOCCMS

Duplicate (B6I0066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
1,4-Dichlorobenzene	ND	0.50	ug/L		ND				20	
Dichlorodifluoromethane	ND	0.50	"		ND				20	
1,1-Dichloroethane	ND	0.50	"		ND				20	
1,2-Dichloroethane	ND	0.50	"		ND				20	
1,1-Dichloroethene	ND	0.50	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	"		ND				20	
1,2-Dichloropropane	ND	0.50	"		ND				20	
1,3-Dichloropropane	ND	0.50	"		ND				20	
2,2-Dichloropropane	ND	0.50	"		ND				20	
1,1-Dichloropropene	ND	0.50	"		ND				20	
cis-1,3-Dichloropropene	ND	0.50	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	"		ND				20	
Ethylbenzene	ND	0.50	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	"		ND				20	
Hexachlorobutadiene	ND	0.50	"		ND				20	
Isopropylbenzene	ND	0.50	"		ND				20	
4-Isopropyl Toluene	ND	0.50	"		ND				20	
Methylene chloride	ND	0.50	"		ND				20	
Naphthalene	ND	0.50	"		ND				20	
n-Propylbenzene	ND	0.50	"		ND				20	
Styrene	ND	0.50	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	"		ND				20	
Toluene	ND	0.50	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	"		ND				20	
Trichloroethene (TCE)	ND	0.50	"		ND				20	
Trichlorofluoromethane	ND	0.50	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	"		ND				20	
Vinyl chloride	ND	0.50	"		ND				20	
Xylenes (total)	ND	0.50	"		ND				20	
4-Methyl-2-pentanone (MIBK)	ND	2.0	"		ND				20	
trans-1,4-Dichloro-2-butene	ND	10	"		ND				20	
Iodomethane	ND	1.0	"		ND				20	

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610066 - EPA 5030B VOCCMS

Duplicate (B610066-DUP1)	Source: 1603218-03			Prepared & Analyzed: 03-Sep-16						
Acetone	ND	5.0	ug/L		ND				20	
Carbon disulfide	ND	1.0	"		ND				20	
Acrylonitrile	ND	10	"		ND				20	
Vinyl acetate	ND	2.0	"		ND				20	CCHI
2-Butanone (MEK)	ND	10	"		ND				20	
2-Hexanone	ND	0.50	"		ND				20	
t-Amyl Methyl Ether	ND	0.50	"		ND				20	
t-Butyl alcohol	ND	10	"		ND				20	
Diisopropyl Ether	ND	0.50	"		ND				20	
Ethanol	ND	500	"		ND				20	
Ethyl t-Butyl Ether	ND	0.50	"		ND				20	
Methyl-t-butyl ether	ND	0.50	"		ND				20	
<i>Surrogate: Dibromofluoromethane</i>	<i>13.7</i>		<i>"</i>	<i>12.5</i>		<i>110</i>	<i>89-115</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>12.5</i>		<i>85.5</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.3</i>	<i>80-116</i>			

Matrix Spike (B610066-MS1)	Source: 1603273-01			Prepared: 03-Sep-16 Analyzed: 04-Sep-16				OTWN
Benzene	23.4	0.50	ug/L	25.0	ND	93.6	84-117	
Chlorobenzene	26.9	0.50	"	25.0	ND	107	86-120	
1,1-Dichloroethene	24.3	0.50	"	25.0	ND	97.0	68-137	
Toluene	23.3	0.50	"	25.0	ND	93.2	66-126	
Trichloroethene (TCE)	23.8	0.50	"	25.0	ND	95.4	80-120	
<i>Surrogate: Dibromofluoromethane</i>	<i>12.7</i>		<i>"</i>	<i>12.5</i>		<i>102</i>	<i>89-115</i>	
<i>Surrogate: Toluene-d8</i>	<i>10.6</i>		<i>"</i>	<i>12.5</i>		<i>84.5</i>	<i>75-117</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>9.41</i>		<i>"</i>	<i>12.5</i>		<i>75.3</i>	<i>80-116</i>	<i>A-01</i>

Batch B610088 - EPA 5030B VOCCMS

Blank (B610088-BLK1)	Prepared & Analyzed: 06-Sep-16									
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							ISlowA
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							ISlowA
sec-Butylbenzene	ND	0.50	"							ISlowA
tert-Butylbenzene	ND	0.50	"							ISlowA
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610088 - EPA 5030B VOCCMS

Prepared & Analyzed: 06-Sep-16

Blank (B610088-BLK1)

Chloroform	ND	0.50	ug/L							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							ISlowA
4-Chlorotoluene	ND	0.50	"							ISlowA
1,2-Dibromo-3-chloropropane	ND	1.0	"							ISlowA
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							ISlowA
1,3-Dichlorobenzene	ND	0.50	"							ISlowA
1,4-Dichlorobenzene	ND	0.50	"							ISlowA
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							ISlowA
Isopropylbenzene	ND	0.50	"							
4-Isopropyl Toluene	ND	0.50	"							ISlowA
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							ISlowA
n-Propylbenzene	ND	0.50	"							ISlowA
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							ISlowA
Tetrachloroethene (PCE)	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							ISlowA
1,2,4-Trichlorobenzene	ND	0.50	"							ISlowA
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							

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Roux Associates, Inc. 209 Shafter Street Islandia NY, 11749	Project: San Luis Obispo Project Number: Confidential SLO County Counsel Project Manager: Kaleena Johnson	Reported: 06-Sep-16 15:44
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B610088 - EPA 5030B VOCCMS

Blank (B610088-BLK1)				Prepared & Analyzed: 06-Sep-16						
Trichlorofluoromethane	ND	0.50	ug/L							
1,2,3-Trichloropropane	ND	0.50	"							ISlowA
1,2,4-Trimethylbenzene	ND	0.50	"							ISlowA
1,3,5-Trimethylbenzene	ND	0.50	"							ISlowA
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
4-Methyl-2-pentanone (MIBK)	ND	2.0	"							
trans-1,4-Dichloro-2-butene	ND	10	"							
Iodomethane	ND	1.0	"							
Acetone	ND	5.0	"							
Carbon disulfide	ND	1.0	"							
Acrylonitrile	ND	10	"							
Vinyl acetate	ND	2.0	"							CCHI
2-Butanone (MEK)	ND	10	"							
2-Hexanone	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	10	"							
Diisopropyl Ether	ND	0.50	"							
Ethanol	ND	500	"							
Ethyl t-Butyl Ether	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							

Surrogate: Dibromofluoromethane	12.1		"	12.5		96.5	89-115			
Surrogate: Toluene-d8	9.67		"	12.5		77.4	75-117			
Surrogate: 4-Bromofluorobenzene	11.4		"	12.5		91.3	80-116			

LCS (B610088-BS1)				Prepared & Analyzed: 06-Sep-16						
Benzene	26.8	0.50	ug/L	25.0		107	84-118			
Chlorobenzene	27.5	0.50	"	25.0		110	88-122			
1,1-Dichloroethene	29.4	0.50	"	25.0		118	69-135			
Toluene	24.2	0.50	"	25.0		96.7	76-122			
Trichloroethene (TCE)	26.3	0.50	"	25.0		105	85-119			

Surrogate: Dibromofluoromethane	12.3		"	12.5		98.2	89-115			
Surrogate: Toluene-d8	10.8		"	12.5		86.4	75-117			
Surrogate: 4-Bromofluorobenzene	11.6		"	12.5		92.6	80-116			

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0088 - EPA 5030B VOCCMS

Duplicate (B6I0088-DUP1)

Source: 1603284-01RE1 Prepared & Analyzed: 06-Sep-16

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzene	ND	10	ug/L		ND			20		
Bromobenzene	ND	10	"		ND			20		
Bromochloromethane	ND	10	"		ND			20		
Bromodichloromethane	ND	10	"		ND			20		
Bromoform	ND	10	"		ND			20		ISlowA
Bromomethane	ND	10	"		ND			20		
n-Butylbenzene	ND	10	"		ND			20		ISlowA
sec-Butylbenzene	ND	10	"		ND			20		ISlowA
tert-Butylbenzene	ND	10	"		ND			20		ISlowA
Carbon tetrachloride	ND	10	"		ND			20		
Chlorobenzene	ND	10	"		ND			20		
Chloroethane	ND	10	"		ND			20		
Chloroform	ND	10	"		ND			20		
Chloromethane	ND	10	"		ND			20		
2-Chlorotoluene	ND	10	"		ND			20		ISlowA
4-Chlorotoluene	ND	10	"		ND			20		ISlowA
1,2-Dibromo-3-chloropropane	ND	20	"		ND			20		ISlowA
Dibromochloromethane	ND	10	"		ND			20		
Dibromomethane	ND	10	"		ND			20		
1,2-Dichlorobenzene	ND	10	"		ND			20		ISlowA
1,3-Dichlorobenzene	ND	10	"		ND			20		ISlowA
1,4-Dichlorobenzene	ND	10	"		ND			20		ISlowA
Dichlorodifluoromethane	ND	10	"		ND			20		
1,1-Dichloroethane	ND	10	"		ND			20		
1,2-Dichloroethane	ND	10	"		ND			20		
1,1-Dichloroethene	ND	10	"		ND			20		
cis-1,2-Dichloroethene	ND	10	"		ND			20		
trans-1,2-Dichloroethene	ND	10	"		ND			20		
1,2-Dichloropropane	ND	10	"		ND			20		
1,3-Dichloropropane	ND	10	"		ND			20		
2,2-Dichloropropane	ND	10	"		ND			20		
1,1-Dichloropropene	ND	10	"		ND			20		
cis-1,3-Dichloropropene	ND	10	"		ND			20		
trans-1,3-Dichloropropene	ND	10	"		ND			20		
Ethylbenzene	ND	10	"		ND			20		
1,2-Dibromoethane (EDB)	ND	10	"		ND			20		
Hexachlorobutadiene	ND	10	"		ND			20		ISlowA
Isopropylbenzene	ND	10	"		ND			20		
4-Isopropyl Toluene	ND	10	"		ND			20		ISlowA
Methylene chloride	ND	10	"		ND			20		

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0088 - EPA 5030B VOCCMS

Duplicate (B6I0088-DUP1)		Source: 1603284-01RE1		Prepared & Analyzed: 06-Sep-16						
Naphthalene	ND	10	ug/L		ND			20		ISlowA
n-Propylbenzene	ND	10	"		ND			20		ISlowA
Styrene	ND	10	"		ND			20		
1,1,1,2-Tetrachloroethane	ND	10	"		ND			20		
1,1,2,2-Tetrachloroethane	ND	10	"		ND			20		ISlowA
Tetrachloroethene (PCE)	ND	10	"		ND			20		
Toluene	ND	10	"		ND			20		
1,2,3-Trichlorobenzene	ND	10	"		ND			20		ISlowA
1,2,4-Trichlorobenzene	ND	10	"		ND			20		ISlowA
1,1,1-Trichloroethane	ND	10	"		ND			20		
1,1,2-Trichloroethane	ND	10	"		ND			20		
Trichloroethene (TCE)	ND	10	"		ND			20		
Trichlorofluoromethane	ND	10	"		ND			20		
1,2,3-Trichloropropane	ND	10	"		ND			20		ISlowA
1,2,4-Trimethylbenzene	ND	10	"		ND			20		ISlowA
1,3,5-Trimethylbenzene	ND	10	"		ND			20		ISlowA
Vinyl chloride	ND	10	"		ND			20		
Xylenes (total)	ND	10	"		ND			20		
4-Methyl-2-pentanone (MIBK)	23.4	40	"		ND			20		
trans-1,4-Dichloro-2-butene	ND	200	"		ND			20		
Iodomethane	ND	20	"		ND			20		
Acetone	70.6	100	"		ND			20		
Carbon disulfide	ND	20	"		ND			20		
Acrylonitrile	ND	200	"		ND			20		
Vinyl acetate	ND	40	"		ND			20		CCHI
2-Butanone (MEK)	ND	200	"		ND			20		
2-Hexanone	ND	10	"		ND			20		
t-Amyl Methyl Ether	ND	10	"		ND			20		
t-Butyl alcohol	ND	200	"		ND			20		
Diisopropyl Ether	ND	10	"		ND			20		
Ethanol	33200	10000	"		17100			64.1	20	QR-04
Ethyl t-Butyl Ether	ND	10	"		ND			20		
Methyl-t-butyl ether	ND	10	"		ND			20		
<i>Surrogate: Dibromofluoromethane</i>	<i>15.3</i>		<i>"</i>	<i>12.5</i>		<i>122</i>	<i>89-115</i>			<i>A-01</i>
<i>Surrogate: Toluene-d8</i>	<i>12.3</i>		<i>"</i>	<i>12.5</i>		<i>98.2</i>	<i>75-117</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.6</i>		<i>"</i>	<i>12.5</i>		<i>93.0</i>	<i>80-116</i>			

Oilfield Environmental and Compliance

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

307 Roemer Way, Suite 300, Santa Maria, CA 93454

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Oilfield Environmental and Compliance, INC.

Roux Associates, Inc.
209 Shafter Street
Islandia NY, 11749

Project: San Luis Obispo
Project Number: Confidential SLO County Counsel
Project Manager: Kaleena Johnson

Reported:
06-Sep-16 15:44

Notes and Definitions

- QR-04 The RPD exceeded the QC control limits.
- OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.
- ISlowA The internal standard associated with this analyte fails the method criteria on the low side. Results may be biased high.
- HDSP Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
- CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.
- A-01 Surrogate recovery is outside of the in-house generated control limits, but within the 70-130 percent recovery range.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



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phone: (661) 762-9143

Rev 062012

CHAIN OF CUSTODY

Page _____ of _____

Company: ROUX ASSOCIATES Project Name/ #: Confidential San County Council (Tim McNulty)

Address: 8150 PACIFIC COAST HWY Ste 450 Site: San Luis Obispo

City/State/ZIP: LONG BEACH CA 90804 Analysis Requested: 1 Special Instructions: * Please send results to both Roux and County Council

Phone: 310 879 4930 Fax: _____ E-mail: tmcnulty@co.slo.ca.us
kjohnson@rouxinc.com

Report To: Kareena Johnson Sampler: Kareena Johnson

Send report via- FAX- PDF- Geotracker EDF- EDD-

Turnaround Time 10 Days- 5 Days- 72 hr- 48 hr- 24 hr- ASAP-

OEC Sample ID	Date/Time Sampled	Matrix** (see key)	# of Cont.	Client Sample ID	VOCs - 8/16/16	toxy + Appendix															
<u>160323</u>	<u>8/30/16 1400</u>	<u>W</u>	<u>1</u>	<u>082318-22</u>	<u>X</u>																<u>5 day TAT</u>
<u>2AC</u>	<u>8/30/16 1410</u>	<u>GW</u>	<u>3</u>	<u>SB-05-35.5</u>	<u>X</u>																<u>1 day TAT</u>
<u>3AC</u>	<u>8/30/16 1410</u>	<u>GW</u>	<u>3</u>	<u>SB-05-35.5-D</u>	<u>X</u>																<u>5 day TAT</u>
<u>4AC</u>	<u>8/31/16 1200</u>	<u>GW</u>	<u>3</u>	<u>SB-05-68.5-EB</u>	<u>X</u>																<u>5 day TAT</u>
<u>5AC</u>	<u>9/1/16 1005</u>	<u>GW</u>	<u>3</u>	<u>SB-05-68.5</u>	<u>X</u>																<u>1 day TAT</u>

Relinquished By: [Signature] Date: 9/1/16 Time: 1215 ** Matrix Key
 Received By: [Signature] Date: 9.1.16 Time: 1215 A = vapor / air
 Relinquished By: [Signature] Date: 9.1.16 Time: 1326 S = solid / sediment
 Received By: [Signature] Date: 09/01/16 Time: 1326 P = product / oil
 Relinquished By: _____ Date: _____ Time: _____ HW = haz waste (Liq.)
 Received By: _____ Date: _____ Time: _____ WATER Types:
 Relinquished By: _____ Date: _____ Time: _____ DW = drinking
 Received By: _____ Date: _____ Time: _____ GW = ground
 Relinquished By: _____ Date: _____ Time: _____ PW = produced
 Received By: _____ Date: _____ Time: _____ SW = surface
 Relinquished By: _____ Date: _____ Time: _____ WW = waste

