Appendix E2 Phase II Environmental Site Assessment

Commercial Property 1515 West 178th Street Gardena, California Stantec Project No: 185803664



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July 18, 2016

Sign-off Sheet

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Executive Summary

The subject property is addressed as 1515 West 178th Street, in the City of Gardena, County of Los Angeles, California (the "Site"). The Site consists of two contiguous parcels totaling approximately 5.63 acres of land developed as warehouse building with associated parking area. The surrounding area is a mixture of commercial and residential properties.

The Site and vicinity appear to have been used for agricultural purposes until the 1960's. SECOR (now Stantec) conducted a shallow soil assessment in 2004 to evaluate the potential presence of residual pesticides in shallow soils from historic agricultural use of the Site. The assessment detected no pesticides at levels above residential screening levels. A site-wide assessment of the Site regarding arsenic and lead (associated with potential herbicide application) was performed by Terracon in 2007. The results of shallow soil sampling by Terracon concluded that neither compound was present at levels above residential screening levels. Based on these assessments, Stantec concludes that the historical agricultural use of the Site represents neither a recognized environmental condition nor a human health risk in light of the contemplated residential use of the Site. Stantec recommends no further investigation regarding this issue.

A soil and soil gas survey was also completed by Terracon in 2007 under the direction of Los Angeles County Fire Department (LACFD). Terracon's assessment identified limited impacts to soil and soil gas on the Site at levels below commercial screening levels. Chlorinated compounds, namely tetrachloroethylene (PCE) and trichloroethylene (TCE), were reported at multiple locations at concentrations that slightly exceeded the residential use screening levels. Based on this information, LACFD issued written regulation closure for the Site in 2008 – but the closure was contingent upon the continued commercial use of the Site.

Since there have been continued automobile repair operations reported at the Site since 2007, and in light of the contemplated change in use from commercial purposes to residential purposes, Stantec recommended performing a new assessment to evaluate whether the detected soil vapor concentration reported in 2007 had changed. Accordingly, Stantec conducted additional soil, soil gas sampling at the Site to evaluate the existing impacts.

In April and May of 2016, Stantec personnel oversaw two rounds of assessment that included the installation of soil vapor probes and soil sampling at seventeen (17) locations at the Site. The assessments identified concentrations of contaminants in soil vapor at levels above current residential screening levels, primarily along the eastern portion of the Site. Soil samples were collected during the May 2016 investigation, but none of the results reported VOCs above laboratory reporting limits (i.e., the results were "non-detect"). The two (2) samples which were also analyzed for TPH similarly reported no concentrations at levels above laboratory reporting limits (i.e., "non-detect").



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Seventeen (17) soil vapor samples were collected from a depth of five (5) feet below ground surface (bgs) at the Site. The samples reported the presence of PCE, TCE, benzene, 1,1-dichloroethene (1,1-DCE) and methylene chloride at concentrations above laboratory reporting limits. Of these VOCs, PCE was reported above its DTSC HERO Note 3 value of 0.48 microgram per liter (ug/L) for residential uses, with a maximum concentration of 68 ug/L reported in location SV-13 (northeast portion of the Site). Benzene was reported slightly above its DTSC HERO Note 3 value of 0.097 ug/L with a maximum concentration of 0.17 ug/L reported at SV-11. The detected soil vapor impacts appear to affect the eastern 1/3 of the Site above the DTSC HERO Note 3 value of 0.48 microgram per liter (ug/L) for residential uses.

To evaluate if the contaminants detected in soil vapor has affected groundwater, Stantec completed an additional assessment in June of 2016. The assessment included the drilling of three (3) borings into groundwater for the collection of hydropunch water samples. Soils encountered during the investigation consisted mainly of silty sand to the maximum depth of 40 feet bgs. Groundwater was encountered at a depth of between 30 and 40 feet bgs in the borings. Stantec identified no staining or hydrocarbon odors in any of the borings.

The groundwater samples reported TPH and VOCs at levels above the Site screening levels, with the highest PCE concentration reported in groundwater at the northeast corner of the Site – in the vicinity of the highest detected contaminant concentrations in soil vapor. Specifically, PCE was reported in HP-1 at 70 μ g/L. PCE concentrations in groundwater decrease toward the south, but elevated concentrations of 1,1-DCE were reported at the southern property line of the Site. The detected concentrations of PCE exceed the maximum contaminant level (MCL) for groundwater, which is currently set at 5 μ g/L.

The groundwater flow gradient at the Site is reported to be toward the northeast, based on a recent groundwater monitoring report from the off-site property located to the south. This property known as Bee Chemical and has a known groundwater contamination issue composed of the same VOCs that were detected at the Site. The VOC impacts in groundwater along the southern property line appear to be commingled with the plume from the former Bee Chemical Facility located to the south of the Site. The limits of this groundwater contamination both on-site and off-site have not been defined to date.

Based on the data collected to date, impact to soil vapor by VOCs - particularly PCE - is present in the northeastern portion of the Site. No source has been identified in soil on the Site. Groundwater has been impacted by VOCs, with the highest reported concentration in the northeastern portion of the Site in the vicinity of highest soil vapor impact. The highest soil vapor concentrations appear to be the source of the elevated groundwater impact in the northeast corner of the Site. The lower concentration groundwater impact in the southern portion of the Site is likely the result of an offsite source migrating onto the Site.

Stantec recommends submitting the data collected to date to LACFD with a request for regulatory oversight. Based on LACFD's review and discussions to be conducted with LACFD, Stantec will then be able to make a determination as to whether additional on-site and/or off-Site assessment is necessary in regard to both soil vapor and groundwater. Following completion of any LACFD-required assessment, Stantec could then – as necessary – be able to



prepare a remedial action plan (RAP) in order to complete any work required by LACFD for redevelopment of the Site for residential purposes.

Should there be any questions regarding the information provided within the accompanying report, please do not hesitate to contact the undersigned at (909) 335-6116.

Respectfully submitted,

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INTRODUCTION
July 18, 2016

1.0 INTRODUCTION

This report documents the methodology and results of a soil, groundwater and soil vapor assessment completed at the Site. This assessment was conducted in accordance with a Proposal for Soil Vapor Sampling dated March 23, 2016, a Proposal for Additional Soil and Soil Vapor Sampling dated April 21, 2016, and a Proposal for Groundwater Sampling dated June 2, 2016 by Stantec. The work completed and results of that sampling are described in the sections below.

1.1 SITE DESCRIPTION AND OPERATIONS

The Site is addressed as 1515 West 178th Street, in the City of Gardena, County of Los Angeles, California and consists of two contiguous parcels totaling approximately 5.63 acres of land developed as warehouse building with associated parking area. The surrounding area is a mixture of commercial and residential properties.

1.2 SITE GEOLOGY AND HYDROGEOLOGY

The Site is located in an area of recent alluvial fan deposits from the Quaternary age. These deposits typically consist of tideland and flood-plain deposits. Regionally, the Site is located within the southwestern block of the Los Angeles Basin, within the Peninsular Ranges Geomorphic Province of California. Shallow sediments in this area of the Los Angeles Basin consist of recentage gravel, sand, silt, and clay deposits by the Los Angeles River and Dominguez Channel. In some areas, these sediments are expected to be approximately 50 to 90 feet thick. The near-surface sediments are underlain by sedimentary rocks of primarily recent to Miocene age. According to past assessments of the Site, the Site is underlain by silty sand (SECOR, 2004c).

The Site is at an average elevation of approximately 35 feet above mean sea levels (msl). The regional topographic is relatedly flat with a local gradient slightly to the northeast towards the Dominguez Channel (United States Geological Survey [USGS], 1964).

The closest mapped active fault is the Newport-Inglewood-Rose Canyon Fault Zone located approximately 2.8 miles northeast of the Property. According to official maps of California, the Site is not located within an Alquist-Priolo (AP) Earthquake Fault Zone boundary (California Geological Survey [CGS], 2010).

The Property lies within the Coastal Plain of Los Angeles groundwater basin, West Coast sub basin (4-11.03). The basin is bounded on the north by the Ballona Escarpment, an abandoned erosional channel from the Los Angeles River; on the east by the Newport-Inglewood fault zone; and on the south and west of the Pacific Ocean and consolidated rocks of the Palos Verdes Hills (Department of Water Resources [DWR], 1999). Water-bearing units include the unconsolidated and semi-consolidated marine and alluvial sediments of Holocene, Pleistocene, and Pliocene ages. Groundwater data attained from the Geotracker website for a facility located 0.35 miles of the north of the Property shows groundwater at elevation of 12-15 feet above msl (approximately 20 feet bgs) as of September 2015 (Geotracker, 2016). However, groundwater data from a facility located 200 feet to the south of the Property shows groundwater gradient to the northwest in 2014. Groundwater was encountered at the Site between 30 and 40 feet bgs during the Site assessment.



SITE BACKGROUND AND PREVIOUS SUBSURFACE INVESTIGATIONS July 18, 2016

2.0 SITE BACKGROUND AND PREVIOUS SUBSURFACE INVESTIGATIONS

The Site and vicinity appear to have been used for agricultural purposes until the 1960's. SECOR (now Stantec) conducted a shallow soil assessment in 2004 to evaluate the potential presence of residual pesticides in shallow soils from historic agricultural use of the Site. That assessment did not detect pesticides above residential screening levels. A site-wide assessment of the Site regarding arsenic and lead (associated with potential herbicides) was performed by Terracon in 2007. The results of shallow soil sampling by Terracon concluded that neither compound exists at levels above residential screening levels. Based on these assessments the historical agricultural use of the Site represents neither a recognized environmental condition nor a human health risk in light of the contemplated residential use of the Site, and Stantec recommended no further investigation regarding this issue.

A soil and soil gas survey was also completed by Terracon in 2007 under the direction of Los Angeles County Fire Department (LACFD). Terracon's assessment identified limited impacts to soil and soil gas on the Site at levels below commercial screening levels. Chlorinated compounds, namely tetrachloroethylene (PCE) and trichloroethylene (TCE), were reported at concentrations that slightly exceed residential use screening levels in several locations. Based on this information the LACFD issued a Site closure in 2008. That closure was for continued commercial use of the Site.

Since there have been reported continued automobile repair operations at the Site since 2007, and the use was proposed to change from the commercial use to residential, Stantec recommended that a new assessment be conducted to evaluate if the detected soil vapor concentration reported in 2007 had changed. Stantec conducted additional soil, soil gas sampling at the Site to evaluate the existing impact.



FIELD INVESTIGATION PROGRAM July 18, 2016

3.0 FIELD INVESTIGATION PROGRAM

On April 8, 2016, Stantec provided oversight for the advancement and installation on ten (10) soil vapor probes across the Site. Based on the elevated soil vapor detection reported in April 2016, Stantec conducted an additional soil and soil vapor survey on May 19, 2016 in the northeast corner of the Site. This additional assessment focused on the evaluation of the lateral and vertical extent of soil vapor impact in this area. The findings of those assessments are discussed below.

In June 2016, Stantec advanced a total of three (3) borings at the Site into groundwater (one location in the northeast, one along the eastern property line, and one location in the southeast). This assessment was conducted to evaluate if groundwater had been affected by the detected elevated soil vapor at the Site. The scopes of work for these assessments consisted of the general elements discussed in the following sections.

3.1 SOIL SAMPLING

Soil Boring and Sampling Procedures

Soil was collected from the boring locations during the May 2016 investigation (not during the April 2016 assessment). Where applicable, paved surfaces were cored to expose underlying soils and hand clearing equipment (hand auger) was used to collect soil for samples at 5 feet or less in depth. Upon extracting the auger bucket at each depth interval, the soils contained therein were placed in a 4-ounce glass jar and labeled with the appropriate identification information (boring number, sample depth, sample collection date, and sample collection time).

Once the five foot depth had been reached, each of the boring locations was further advanced using a Geoprobe direct push rig. During advancement at each location, sampling of subsurface soils was performed at a depth of approximately 15 foot bgs using a 12-inch long by 1.25-inch inner diameter stainless steel sampler with acetate inserts. At each sampling interval, the sampler was driven into undisturbed soil using a hydraulic ram on the Geoprobe rig until 12 inches of penetration was achieved. Upon advancement of the sampler to the desired sampling depth interval, the steel rods were extracted from the boring and the sample sleeves were removed.

Upon extracting the sampler at each depth interval, the soil samples were collected from the bottom portion of the acetate liner. In selected borings, the soils were visually examined by Stantec field personnel and classified in accordance with the unified soil classification system (USCS). All soil samples were carefully packaged for chemical analysis by sealing the sleeve with Teflon sheets, plastic end-caps, and non-VOC tape. After the sleeve was sealed, it was labeled with the appropriate identification information (boring number, sample depth, sample collection date, and sample collection time). The samples were then logged on a chain-of-custody form and placed in an ice-filled cooler for transport to the laboratory. Copies of the chain-of-custody forms are included as Appendix A.



FIELD INVESTIGATION PROGRAM July 18, 2016

3.2 SOIL VAPOR SAMPLING

Stantec performed soil vapor sampling during the April 2016 and May 2016 investigations. Vapor probes were set at 5 feet bgs during the initial investigation in April 2016, and 5 and 15 feet bgs in each location in May 2016 with all samples analyzed for VOCs by EPA test method 8260b. The soil vapor sampling probe locations and results are shown on Figures 2 and 3.

Subsurface soil vapor sampling was performed in general accordance with the July 2015 Cal-EPA Advisory for active soil gas investigations. Each of the soil gas sample probes was installed using a Geoprobe drilling rig utilizing a hydraulically driven direct push system to advance the proposed boring to 6 or 16 feet bgs. Each sample boring was constructed with a 6-inch sampling screen set between 5 and 6 feet bgs in all borings and additionally between 15 and 16 feet bgs in the May 2016 investigation. The sampling screen was then connected to the ground surface via dedicated Nylaflow ® nylon tubing. The annulus around the exposed probe tip was backfilled with a silica sand filter pack to an elevation of about six inches above the sampling screen. Above the filter pack, a 6 to 12-inch transition zone was constructed using dry bentonite granules. From the top of the dry bentonite transition zone to the ground surface, hydrated bentonite granules were utilized to seal the annular space. At the surface the exposed nylon tubing was capped with tight fitting plastic end-caps, labeled to indicate sampling depth. After placement of the soil gas sampling points, subsurface conditions were allowed to equilibrate for at least 48 hours prior to leak testing and sample collection.

After at least 48 hours elapsed, a shut-in test was performed consisting of an above-ground apparatus of valves, line, and fitting located downstream from the top of the probe. The line was evacuated to a measured vacuum of approximately 100 inches of water column and the vacuum was shut in with closed valves on opposite ends of the sampling train. At this point, a vacuum gauge connected to the line was observed for at least one minute for any signs of a loss in vacuum.

One replicate sample per day was also collected and analyzed from a gas probe containing detectable concentrations of VOCs.

During soil gas sampling a leak check was performed using tracer gas of 1,1-difluoroethane. The tracer compound was applied to a clean rag and situated around the monitoring point to evaluate seal integrity. Seal integrity was confirmed by analyzing the collected soil gas samples for the tracer compound. No tracer gases were found in any of the samples.



FIELD INVESTIGATION PROGRAM July 18, 2016

3.3 GROUNDWATER SAMPLING

Stantec performed groundwater sampling at three (3) locations during the June 2016 investigation. Groundwater was encountered between 30 and 40 feet bgs with all samples analyzed for TPH and VOCs by EPA test methods 8015m and 8260b, respectively. The groundwater boring locations and results are shown on Figures 2 and 4.

Borings were advanced using a Geoprobe hydraulic ram with steel rods advanced in five-foot flights to the total depth of the boring. Upon verifying the presence of groundwater, a sampling screen was exposed at the bottom of the boring and groundwater was collected via a steel bailer or Teflon tubing lowered through the center of the rods. Groundwater was discharged from the bailer or tubing directly into 40 mL volatile organic analysis (VOA) vials and 1-L amber glass jars. The sample containers were labeled with appropriate identification information (boring number, sample collection date, sample collection time), recorded on a COC form and placed in an iced cooler for delivery to the off-site ELAP-certified laboratory. Copies of the COC forms are included in Appendix A.

3.4 DECONTAMINATION PROCEDURES

To maintain quality control during soil sampling, prior to each sampling interval, the sampling equipment was decontaminated in an Alconox scrub solution and double-rinsed, first with tap water followed by a final rinse using distilled water. Where single use disposable sampling equipment was used (i.e. disposable bailers, and Teflon tubing), the equipment was used once at the dedicated sampling interval and then discarded. In addition, prior to, and between each boring advanced, the hollow steel rods were cleaned following the same protocol.

3.5 WASTE DISPOSAL

All soil cuttings and purge/decon-water generated during the investigation were placed in DOT approved 16-gallon or 55-gallon drums and labeled with the appropriate identification. The drums are temporarily stored on-site pending removal and proper disposal.



LABORATORY TESTING PROGRAM July 18, 2016

4.0 LABORATORY TESTING PROGRAM

A total of fifteen (15) soil samples and three (3) groundwater samples collected during this investigation were delivered under chain-of-custody (Appendix A) to Eurofins Calscience Laboratories (Eurofins) based out of Garden Grove, California. Samples were analyzed for TPH and/or VOCs by EPA Test Methods 8015m and 8260b, respectively.

A total of twenty four (24) soil vapor samples plus two (2) replicates collected during this investigation were delivered under chain-of-custody (Appendix A) to H&P Mobile Geochemistry (H&P) based out of Carlsbad, California. All of the soil vapor samples were collected and analyzed for VOCs by EPA Test Method 8260b onsite by H&P in a mobile laboratory.

Eurofins and H&P are certified to perform hazardous waste testing by the State of California Department of Health Services, Environmental Laboratory Accreditation Program.

Analytical results are tabulated in Tables 1 through 3. Analytical laboratory test results are included in Appendix A and discussed in Section 5.2.



INVESTIGATION RESULTS July 18, 2016

5.0 INVESTIGATION RESULTS

5.1 FIELD OBSERVATIONS

In April and May 2016, Stantec personnel oversaw the installation of soil vapor probes and soil sampling at seventeen (17) locations at the Site. In June 2016, three (3) groundwater borings were advanced. Soils encountered during the investigation consisted mainly of silty sand to the maximum explored depth of 40 feet bgs. Groundwater was encountered at a depth of between 30 and 40 feet bgs in the groundwater borings. No staining or hydrocarbon odors were identified in any of the borings.

5.2 ANALYTICAL RESULTS

The laboratory test results are discussed below. Laboratory test results are summarized in attached Tables 1 through 3. The complete laboratory analytical test results are presented on the laboratory data sheets attached as Appendix A.

5.2.1 Soil Samples

Soil samples were collected during the May 2016 investigation. None of the soil samples reported VOCs above laboratory reporting limits (i.e., the results were "non-detect"). The two (2) samples which were also analyzed for TPH reported none above laboratory reporting limits.

The results of soil sample analysis are summarized in Table 1 and the complete laboratory report is attached as Appendix A.

5.2.2 Soil Vapor Samples

Soil vapor samples were collected from ten (10) locations at a depth of 5 feet at the Site in April 2016. The samples reported PCE, TCE, benzene, 1,1-DCE and methylene chloride above laboratory reporting limits. Of these VOCs, PCE was reported above its DTSC HERO Note 3 value of 0.48 ug/L in four (4) samples with a maximum concentration of 46 ug/L reported in location SV-7 (northeast portion of the Site). Benzene was reported above its DTSC HERO Note 3 value of 0.097 ug/L in three (3) samples with a maximum concentration of 0.10 ug/L reported in locations SV-6, SV-7 and SV-9.

Based on those results, seven (7) additional soil vapor borings were completed within the northeast portion of the Site in May 2016 where high PCE was reported (SV-7) to assess if remedial excavation and/or vapor barriers are required for this area of the Site. Soil vapor samples were collected from 5 and 15 feet bgs from these locations (SV-11 through SV-17) with the exception of SV-13 and SV-14 where the 15 foot probes could not be sampled due to high vacuum in the soil vapor probe. PCE, TCE, benzene, 1,1-DCE, methylene chloride and xylenes were reported above laboratory reporting limits. All samples reported PCE above the DTSC HERO Note 3 residential soil screening level, up to a maximum concentration of 68 ug/L in sample SV-



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13-5. Concentrations decreased with depth in several locations. TCE was reported above its U.S. EPA RSL value of 0.48 ug/L in four (4) locations with a maximum concentration of 3.1 ug/L reported in sample SV-15-15. Benzene was reported above its DTSC HERO Note 3 value of 0.097 ug/L in four (4) locations with a maximum concentration of 0.17 ug/L reported in sample SV-11-5.

The results of soil vapor sample analysis are summarized in Table 2 and the complete laboratory report is attached as Appendix A.

5.2.3 Groundwater Samples

The collected groundwater samples reported TPH and VOCs above the Site screening levels with the highest PCE concentration reported in groundwater the northeast corner of the Site in the vicinity of the highest soil vapor concentrations. PCE was reported in HP-1 at 70 μ g/L. PCE concentrations decrease toward the south, but elevated concentrations of 1,1-DCE were reported at the southern property line of the Site. The detected concentrations of PCE are above the maximum contaminant level (MCL) for groundwater currently set at 5 μ g/L.



CONCLUSIONS AND RECOMMENDATIONS July 18, 2016

6.0 CONCLUSIONS AND RECOMMENDATIONS

The subject property is addressed as 1515 West 178th Street, in the City of Gardena, County of Los Angeles, California (the "Site"). The Site consists of two contiguous parcels totaling approximately 5.63 acres of land developed as warehouse building with associated parking area. The surrounding area is a mixture of commercial and residential properties.

The Site and vicinity appear to have been used for agricultural purposes until the 1960's. SECOR (now Stantec) conducted a shallow soil assessment in 2004 to evaluate the potential presence of residual pesticides in shallow soils from historic agricultural use of the Site.

The assessment detected no pesticides at levels above residential screening levels. A site-wide assessment of the Site regarding arsenic and lead (associated with potential herbicide application) was performed by Terracon in 2007. The results of shallow soil sampling by Terracon concluded that neither compound was present at levels above residential screening levels. Based on these assessments, Stantec concludes that the historical agricultural use of the Site represents neither a recognized environmental condition nor a human health risk in light of the contemplated residential use of the Site. Stantec recommends no further investigation regarding this issue.

A soil and soil gas survey was also completed by Terracon in 2007 under the direction of Los Angeles County Fire Department (LACFD). Terracon's assessment identified limited impacts to soil and soil gas on the Site at levels below commercial screening levels. Chlorinated compounds, namely tetrachloroethylene (PCE) and trichloroethylene (TCE), were reported at multiple locations at concentrations that slightly exceeded the residential use screening levels. Based on this information, LACFD issued written regulation closure for the Site in 2008 – but the closure was contingent upon the continued commercial use of the Site.

Since there have been continued automobile repair operations reported at the Site since 2007, and in light of the contemplated change in use from commercial purposes to residential purposes, Stantec recommended performing a new assessment to evaluate whether the detected soil vapor concentration reported in 2007 had changed. Accordingly, Stantec conducted additional soil, soil gas sampling at the Site to evaluate the existing impacts.

In April and May of 2016, Stantec personnel oversaw two rounds of assessment that included the installation of soil vapor probes and soil sampling at seventeen (17) locations at the Site. The assessments identified concentrations of contaminants in soil vapor at levels above current residential screening levels, primarily along the eastern portion of the Site. Soil samples were collected during the May 2016 investigation, but none of the results reported VOCs above laboratory reporting limits (i.e., the results were "non-detect"). The two (2) samples which were also analyzed for TPH similarly reported no concentrations at levels above laboratory reporting limits (i.e., "non-detect").

Seventeen (17) soil vapor samples were collected from a depth of five (5) feet below ground surface (bgs) at the Site. The samples reported the presence of PCE, TCE, benzene, 1,1-



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dichloroethene (1,1-DCE) and methylene chloride at concentrations above laboratory reporting limits. Of these VOCs, PCE was reported above its DTSC HERO Note 3 value of 0.48 microgram per liter (ug/L) for residential uses, with a maximum concentration of 68 ug/L reported in location SV-13 (northeast portion of the Site). Benzene was reported slightly above its DTSC HERO Note 3 value of 0.097 ug/L with a maximum concentration of 0.17 ug/L reported at SV-11. The detected soil vapor impacts appear to affect the eastern 1/3 of the Site above the DTSC HERO Note 3 value of 0.48 microgram per liter (ug/L) for residential uses.

To evaluate if the contaminants detected in soil vapor has affected groundwater, Stantec completed an additional assessment in June of 2016. The assessment included the drilling of three (3) borings into groundwater for the collection of hydropunch water samples. Soils encountered during the investigation consisted mainly of silty sand to the maximum depth of 40 feet bgs. Groundwater was encountered at a depth of between 30 and 40 feet bgs in the borings. Stantec identified no staining or hydrocarbon odors in any of the borings.

The groundwater samples reported TPH and VOCs at levels above the Site screening levels, with the highest PCE concentration reported in groundwater at the northeast corner of the Site – in the vicinity of the highest detected contaminant concentrations in soil vapor. Specifically, PCE was reported in HP-1 at 70 μ g/L. PCE concentrations in groundwater decrease toward the south, but elevated concentrations of 1,1-DCE were reported at the southern property line of the Site. The detected concentrations of PCE exceed the maximum contaminant level (MCL) for groundwater, which is currently set at 5 μ g/L.

The groundwater flow gradient at the Site is reported to be toward the northeast, based on a recent groundwater monitoring report from the off-site property located to the south. This property known as Bee Chemical and has a known groundwater contamination issue composed of the same VOCs that were detected at the Site. The VOC impacts in groundwater along the southern property line appear to be commingled with the plume from the former Bee Chemical Facility located to the south of the Site. The limits of this groundwater contamination both on-site and off-site have not been defined to date.

Based on the data collected to date, impact to soil vapor by VOCs - particularly PCE - is present in the northeastern portion of the Site. No source has been identified in soil on the Site. Groundwater has been impacted by VOCs, with the highest reported concentration in the northeastern portion of the Site in the vicinity of highest soil vapor impact. The highest soil vapor concentrations appear to be the source of the elevated groundwater impact in the northeast corner of the Site. The lower concentration groundwater impact in the southern portion of the Site is likely the result of an offsite source migrating onto the Site.

Stantec recommends submitting the data collected to date to LACFD with a request for regulatory oversight. Based on LACFD's review and discussions to be conducted with LACFD, Stantec will then be able to make a determination as to whether additional on-site and/or off-Site assessment is necessary in regard to both soil vapor and groundwater. Following completion of any LACFD-required assessment, Stantec could then – as necessary – be able to prepare a remedial action plan (RAP) in order to complete any work required by LACFD for redevelopment of the Site for residential purposes.



LIMITATIONS July 18, 2016

7.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on data described in this report. The opinions of this report have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location, and are subject to the following inherent limitations. Stantec makes no other warranty, either expressed or implied, concerning the conclusions and professional advice that is contained within the body of this report.

Inherent in most projects performed in a heterogeneous subsurface environment, continuing excavation and assessments may reveal findings that are different than those presented herein. This facet of the environmental profession should be considered when formulating professional opinions on the limited data collected on these projects.

This report has been issued with the clear understanding that it is the responsibility of the owner, or their representative, to make appropriate notifications to regulatory agencies. It is specifically not the responsibility of Stantec to conduct appropriate notifications as specified by current County and State regulations.

The information presented in this report is valid as of the date our exploration was performed. Site conditions may degrade with time; consequently, the findings presented herein are subject to change.



REFERENCES July 18, 2016

8.0 REFERENCES

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOG), 2016, website http://www.consrv.ca.gov/dog/maps

Department of Toxic Substances and Control, 2005, Fact Sheet #2: Gardena Sumps Site, Environmental Investigation Resumes, October.

_____, 2016, website http://www.envirostor.dtsc.ca.gov/public/

Odic Environmental, 2012, Phase I Environmental Site Assessment, June 26.

Odic Environmental, 2013, Update of Phase I Environmental Site Assessment, February 2.

SECOR, 2004, Phase I Environmental Site Assessment – Power Trans Freight Systems, May 12.

SECOR, 2004, Phase II Environmental Site Assessment – Power Trans Freight Systems, December 2.

Stantec, 2016, Phase I Environmental Site Assessment, April 27.

State Water Resource Control Board's Geotracker, 2016, website https://geotracker.waterboards.ca.gov/

United States Geological Survey (USGS), 1981, Torrance, 7.5 Minute Topographic Map, Scale 1 inch = 2,400 feet.



8.1

TABLES

Table 1 Summary of Soil Analytical Results 1515 West 178th Street, Gardena, CA

Stantec Project No.: 185803664

| | | VOCs (3) | VOCs ⁽³⁾ | | | | | | | |
|--------------------------|---------------------------------|----------------------|---------------------|-------|----------|----------|----------|--------------|----------------------|----------------|
| Sample ID ⁽¹⁾ | Sampling Date | Sampling | | | | | EPA Te | st Method 82 | 260B | |
| sample ib · · | Sampling Date | Depth ⁽²⁾ | TPHd | TPHo | Benzene | PCE | TCE | 1,1-DCE | Methylene Choride | All Other VOCs |
| US | EPA RSLs (mg/kg) ⁽³⁾ | | 96 | 2,500 | 1.2 | 24 | 0.94 | 780 | 580 | varies |
| CA - DTSC HI | ERO Note 3 - Soil (mg | g/kg) ⁽⁴⁾ | NE | NE | 0.33 | 0.60 | NE | 210 | NE | varies |
| SV-11-5 | 5/19/2016 | 5 | NA | NA | < 0.0051 | <0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-11-15 | 5/19/2016 | 15 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-12-5 | 5/19/2016 | 5 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | < 0.051 | ND |
| SV-12-15 | 5/19/2016 | 5 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | < 0.051 | ND |
| SV-12-15 REP | 5/19/2016 | 15 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | < 0.051 | ND |
| SV-13-5 | 5/19/2016 | 5 | <4.9 | <25 | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | < 0.051 | ND |
| SV-13-15 | 5/19/2016 | 15 | <4.9 | <25 | < 0.0051 | <0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-14-5 | 5/19/2016 | 5 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-14-15 | 5/19/2016 | 15 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-15-5 | 5/19/2016 | 5 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | < 0.051 | ND |
| SV-15-15 | 5/19/2016 | 15 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | < 0.051 | ND |
| SV-16-5 | 5/19/2016 | 5 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-16-15 | 5/19/2016 | 15 | NA | NA | < 0.0051 | <0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-17-5 | 5/19/2016 | 5 | NA | NA | < 0.0051 | < 0.0051 | <0.0051 | < 0.0051 | <0.051 | ND |
| SV-17-15 | 5/19/2016 | 15 | NA | NA | < 0.0051 | < 0.0051 | < 0.0051 | < 0.0051 | < 0.051 | ND |

NOTES:

- (1) Refer to Figure 2 for sampling locations
- (2) sampling depth is reported as feet below ground surface
- (3) Concentrations reported in milligrams per kilogram (mg/kg)
- (4) California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human

Health Risk Assessment (HHRA) Note No.3 - Soil Values in mg/kg - January 2016

< - Indicates the concentration was not detected above the laboratory reporting limit.

ABBREVIATIONS:

bgs - below ground surface

NA - Not Analyzed 1,1-DCE - 1,1-Dichloroethene

ND - Non Detect

NE - Not Established

PCE - Tetrachloroethene

TPHg - Total Petroleum Hydrocarbons as gasoline

TPHd - Total Petroleum Hydrocarbons as diesel

TPHo -Total Petroleum Hydrocarbons as oil

VOCs - Volatile Organic Compounds

USEPA RSLs - United States Environmental Protection Agency Regional Screening Levels for Residential Soils - November 2015

Table 2 Summary of Soil Vapor Analytical Results 1515 West 178th Street, Gardena, CA

| Stantec Project No.: 185803664 | | | | | | | | | | |
|--------------------------------|-----------------|---|----------------------------------|-------|---------|--------------------------------------|--------------|-----------------|-------------------|--|
| Sample ID | Purge Volume | Sampling Date | Sampling Depth ⁽¹⁾ | PCE | TCE | VOCs (µg/L) ⁽² Benzene | 1,1-DCE | Methylene | Other VOCs | |
| | r Residentic | al Land Use - S (L) ⁽³⁾ | | 11 | 0.48 | 0.36 | 210 | Chloride 100 | varies | |
| CA - DTSC H | | 3 - Soil Vapor | · (µg/L) ⁽⁴⁾ | 0.48 | NE | 0.097 | 73 | 1.0 | varies | |
| | | | | | Samples | | | | | |
| SV-1 | 3 | 4/8/2016 | 5 | 0.41 | <0.08 | <0.08 | <0.40 | <0.40 | ND | |
| SV-2 | 3 | 4/8/2016 | 5 | 0.51 | <0.08 | <0.08 | 0.62 | 0.45 | ND | |
| SV-3 | 3 | 4/8/2016 | 5 | 0.31 | <0.08 | <0.08 | <0.40 | <0.40 | ND | |
| SV-3 REP | 3 | 4/8/2016 | 5 | 0.26 | <0.08 | <0.08 | <0.40 | <0.40 | ND | |
| SV-4 | 3 | 4/8/2016 | 5 | 0.24 | <0.08 | <0.08 | <0.40 | 1.0 | ND | |
| SV-5 | 3 | 4/8/2016 | 5 | 1.0 | <0.08 | 0.09 | <0.40 | <0.40 | ND | |
| SV-6 | 3 | 4/8/2016 | 5 | 0.99 | 0.11 | 0.10 | <0.40 | <0.40 | ND | |
| SV-7 | 3 | 4/8/2016 | 5 | 46 | 0.10 | 0.10 | <0.40 | <0.40 | ND | |
| SV-8 | 3 | 4/8/2016 | 5 | <0.08 | <0.08 | 0.09 | <0.40 | <0.40 | ND | |
| SV-9 | 3 | 4/8/2016 | 5 | <0.08 | <0.08 | 0.10 | <0.40 | <0.40 | ND | |
| SV-10 | 3 | 4/8/2016 | 5 | 0.11 | <0.08 | 0.09 | <0.40 | <0.40 | ND | |
| SV-11-5 | 3 | 5/19/2016 | 5 | 6.1 | 2.1 | 0.17 | <0.40 | <0.40 | m,p-Xylene - 0.51 | |
| SV-11-15 | 3 | 5/19/2016 | 15 | 7.4 | 2.8 | <0.08 | <0.40 | <0.40 | ND | |
| SV-12-5 | 3 | 5/19/2016 | 5 | 15 | 1.3 | <0.08 | <0.40 | <0.40 | ND | |
| SV-12-15 | 3 | 5/19/2016 | 5 | 31 | 2.4 | <0.08 | <0.40 | <0.40 | ND | |
| SV-12-15 REP | 3 | 5/19/2016 | 15 | 23 | 2.0 | <0.08 | <0.40 | <0.40 | ND | |
| SV-13-5 | 3 | 5/19/2016 | 5 | 68 | 0.13 | 0.10 | <0.40 | <0.40 | ND | |
| SV-13-15 | 3 | 5/19/2016 | 15 | | | NS | - > 100" H2O | | | |
| SV-14-5 | 3 | 5/19/2016 | 5 | 21 | 0.28 | 0.14 | <0.40 | <0.40 | ND | |
| SV-14-15 | 3 | 5/19/2016 | 15 | | | NS | - > 100" H2O | | | |
| SV-15-5 | 3 | 5/19/2016 | 5 | 4.6 | 1.7 | <0.08 | <0.40 | <0.40 | ND | |
| SV-15-15 | 3 | 5/19/2016 | 15 | 7.1 | 3.1 | 0.09 | <0.40 | <0.40 | ND | |
| SV-16-5 | 3 | 5/19/2016 | 5 | 14 | 0.64 | <0.08 | <0.40 | <0.40 | ND | |
| SV-16-15 | 3 | 5/19/2016 | 15 | 3.5 | 0.30 | 0.09 | <0.40 | <0.40 | ND | |
| SV-17-5 | 3 | 5/19/2016 | 5 | 27 | 0.42 | 0.15 | <0.40 | <0.40 | ND | |
| SV-17-15 | 3 | 5/19/2016 | 15 | 24 | 0.40 | <0.08 | <0.40 | <0.40 | ND | |

NOTES:

- (1) Sample depth is reported as feet below ground surface
- (2) Concentrations reported in µg/L and analyzed by GC/MS, EPA Method 8260B or TO-15
- (3) Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for Reseidential Soil Vapor updated November 2015 (with an attenuation factor of 0.001)
- (4) California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note No.3 Residential Air Cancer Endpoint Values in μ g/L January
- ND< Indicates the concentration was not detected above the listed laboratory method reporting limit.

The analyte was reported above its RSL or HERO HHRA No. 3

ABBREVIATIONS:

NA - Not Analzyed

NE - Not Established VOCs - Volatile Organic Compounds

TABLE 3
Summary of Groundwater Results
1515 West 178th Street, Gardena, CA

Stantec Project No.: 185803664

| Well ID | Date | TPHg | TPHd | ТРНо | PCE | TCE | 1,1-DCA | 1,1-DCE | 1,2-DCA | 1,1,2-TCA | Chloroform | All Other VOCs |
|-----------|----------|------|------|-------|-----|-----|---------|---------|---------|-----------|------------|-------------------|
| US EP | A MCL | - | | - | 5.0 | 5.0 | | 7.0 | 5.0 | 5.0 | | various |
| CALIFORNI | A MCL/NL | | | | 5.0 | 5.0 | 5.0 | 6.0 | 0.5 | 5.0 | 1.0 | various |
| HP-1 | 06/27/16 | <100 | 53 | <250 | 70 | 16 | <1.0 | <1.0 | <0.50 | <1.0 | <1.0 | ND |
| HP-2 | 06/27/16 | <100 | 65 | <250 | 3.7 | 1.5 | <1.0 | <1.0 | <0.50 | <1.0 | <1.0 | ND |
| HP-3 | 06/27/16 | <100 | 310 | 1,100 | 5.8 | 12 | 16 | 100 | 1.7 | 1.7 | 1.8 | ND |

Notes:

All results reported in micrograms per liter (ug/L)

USEPA = United States Environmental Protection Agency

MCL = Maximum Contaminant Levels updated January 2015.

< = Concentration less than the indicated laboratory reporting limit.

The analyte was reported above its MCL

TPHg = Total Petroleum Hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

TPHo =Total Petroleum Hydrocarbons as oil

PCE = Tetrachloroethene

TCE = Trichloroethene

1,1-DCA = 1,1-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

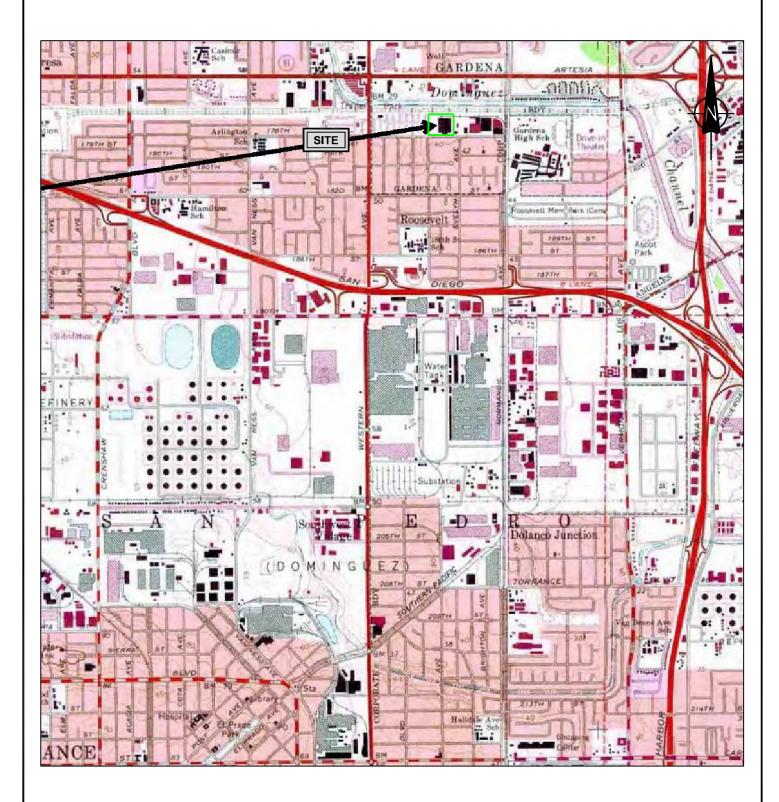
1,2-DCE = 1,1-Dichloroethane

1,1,2-TCA = 1,1,-Trichloroethane

TPH = Total petroleum hydrocarbons

VOCs = Volatile organic compounds

FIGURES



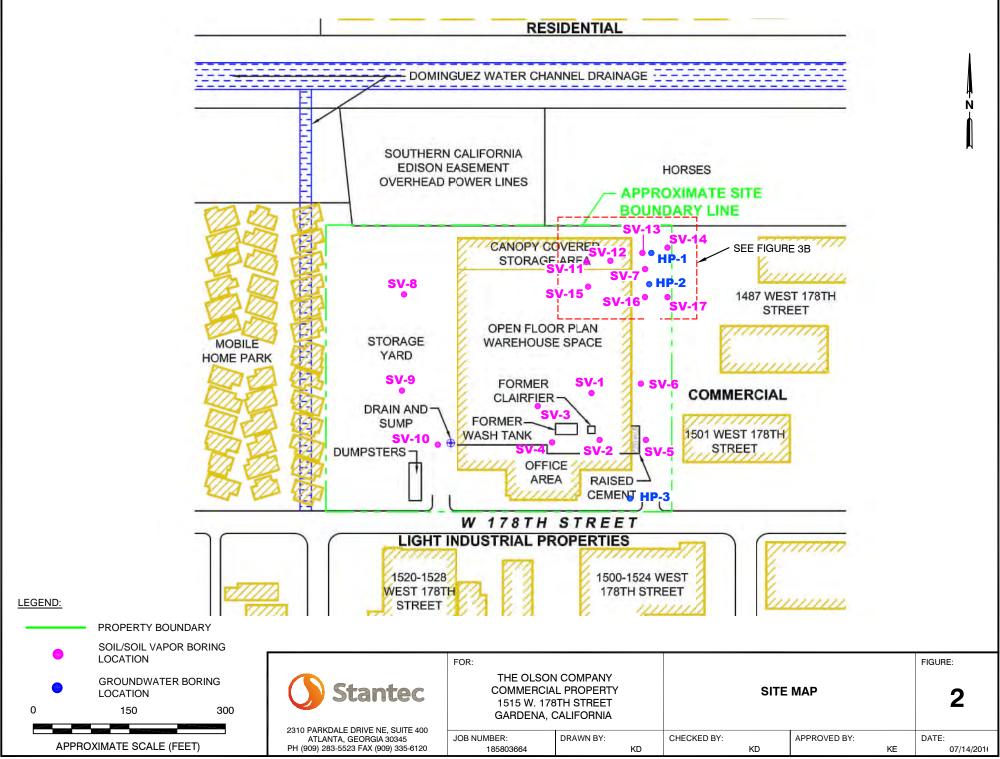
0 2500 5000 7500 ft
SCALE : AS SHOWN

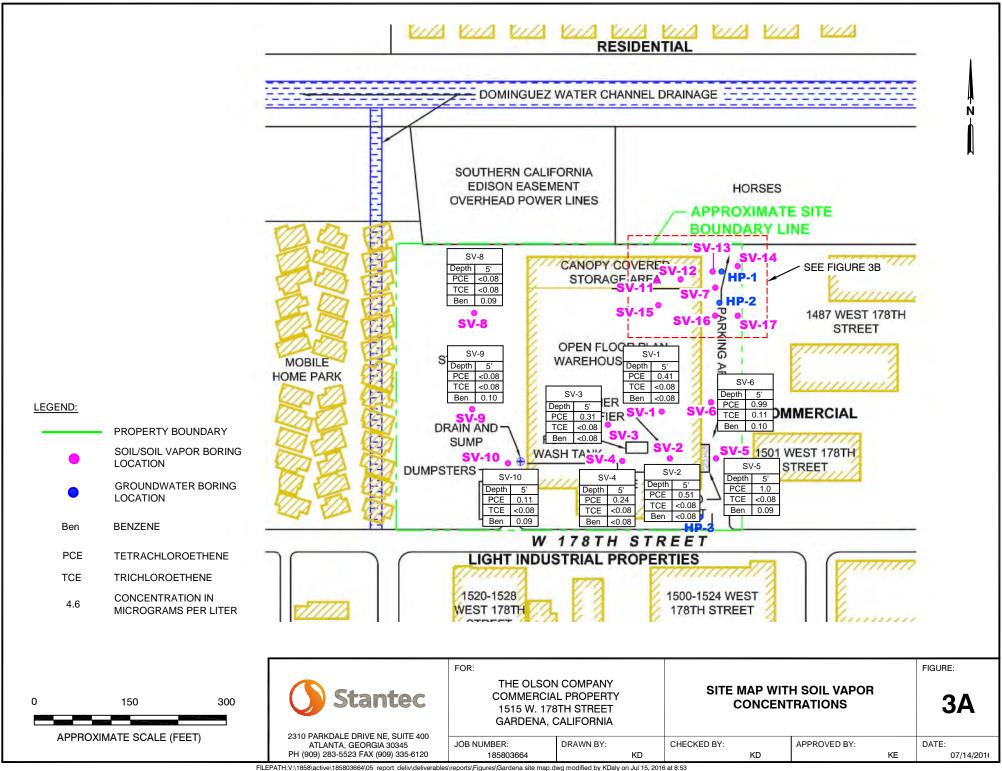
NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC SERVICES INC. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

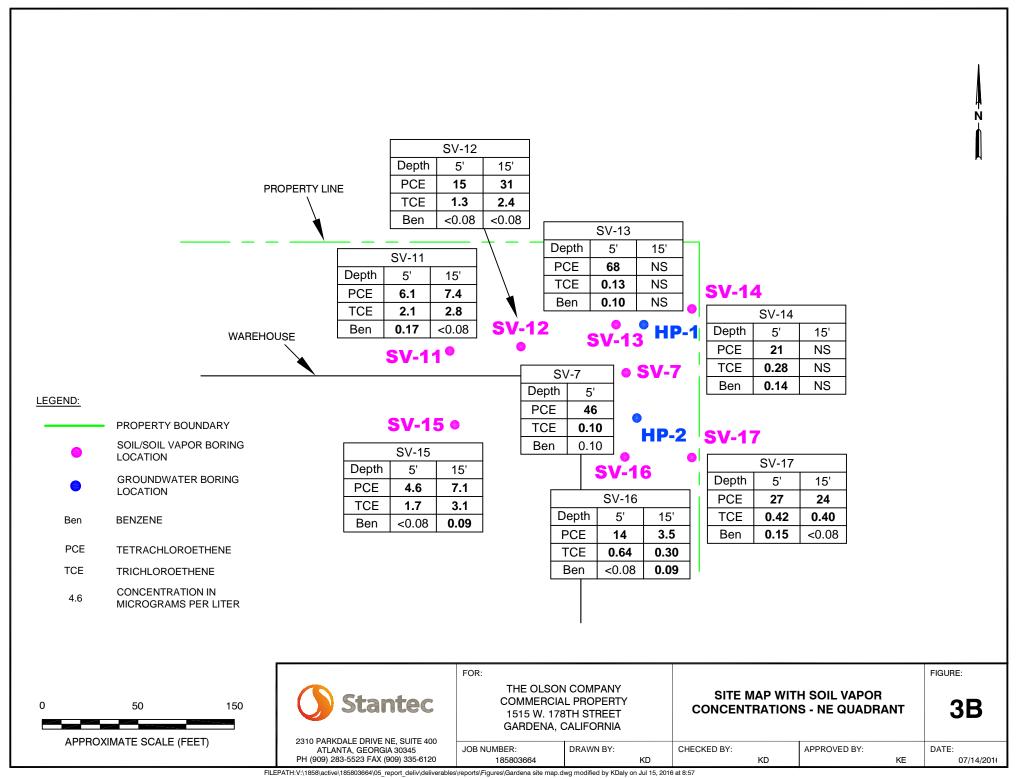
| | 3 11 TOT TIE TOT TO THE | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|-----------------------------------|-------------------------|-------------------------------|--|
| DDODEDTY I OCATION MAD | Project No.: | 185803664 | Fig. No.: |
| PROPERTY LOCATION MAP | Scale: | AS SHOWN | _ |
| PHASE I ESA | Date: | te: 16/03/24 | |
| 1515 W. 178TH STREET, GARDENA, CA | Dwn. By: | CD _{VM} SC2016030068 | |
| THE OLSON COMPANY | App'd By: | KE | |

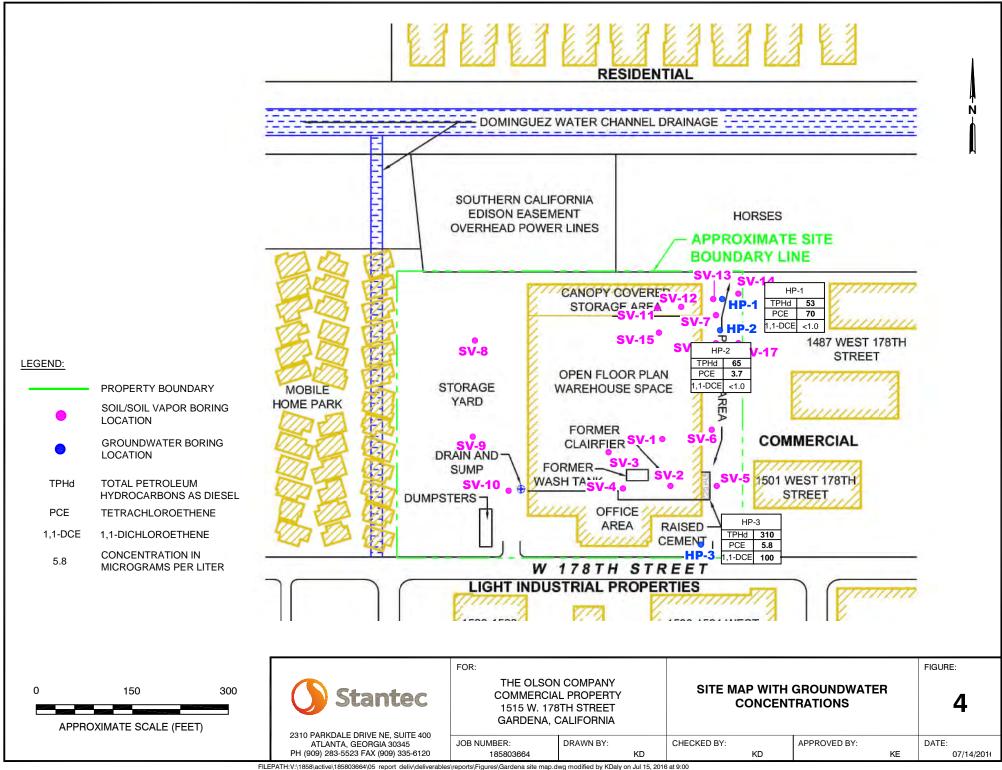


Client:









APPENDIX A LABORATORY DATA SHEETS AND QA/QC RESULTS



Calscience



WORK ORDER NUMBER: 16-05-1326

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Stantec

Client Project Name: 185803664

Attention: Jim DeWoody

25864-F Business Center Drive Redlands, CA 92374-4515

Hathken M. burney Fox

Approved for release on 05/25/2016 by:

Carla Hollowell Project Manager



ResultLink ▶

Email your PM >

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

| Client Project Name: | 185803664 |
|----------------------|------------|
| Work Order Number: | 16-05-1326 |

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| 3 | Client Sample Data | 5 |
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| 5 | Glossary of Terms and Qualifiers | 57 |
| 6 | Chain-of-Custody/Sample Receipt Form | 58 |



Work Order Narrative

Work Order: 16-05-1326 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/18/16. They were assigned to Work Order 16-05-1326.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.





Sample Summary

 Client:
 Stantec
 Work Order:
 16-05-1326

 25864-F Business Center Drive
 Project Name:
 185803664

Redlands, CA 92374-4515 PO Number:

Date/Time 05/18/16 15:40 Received:

Number of 14 Containers:

Attn: Jim DeWoody

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|---------------|--------------------------|----------------------|--------|
| SV-11-5 | 16-05-1326-1 | 05/17/16 09:13 | 1 | Solid |
| SV-11-15 | 16-05-1326-2 | 05/17/16 09:27 | 1 | Solid |
| SV-12-5 | 16-05-1326-3 | 05/17/16 09:55 | 1 | Solid |
| SV-12-15 | 16-05-1326-4 | 05/17/16 10:09 | 1 | Solid |
| SV-13-5 | 16-05-1326-5 | 05/17/16 10:33 | 1 | Solid |
| SV-13-15 | 16-05-1326-6 | 05/17/16 10:47 | 1 | Solid |
| SV-17-5 | 16-05-1326-7 | 05/17/16 12:00 | 1 | Solid |
| SV-17-15 | 16-05-1326-8 | 05/17/16 12:10 | 1 | Solid |
| SV-14-5 | 16-05-1326-9 | 05/17/16 12:38 | 1 | Solid |
| SV-14-15 | 16-05-1326-10 | 05/17/16 12:50 | 1 | Solid |
| SV-16-5 | 16-05-1326-11 | 05/17/16 13:07 | 1 | Solid |
| SV-16-15 | 16-05-1326-12 | 05/17/16 13:20 | 1 | Solid |
| SV-15-5 | 16-05-1326-13 | 05/17/16 13:55 | 1 | Solid |
| SV-15-15 | 16-05-1326-14 | 05/17/16 14:25 | 1 | Solid |



Analytical Report

Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 1 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-------------|
| SV-11-5 | 16-05-1326-1-A | 05/17/16 09:13 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 06:10 | 160518L054 |
| <u>Parameter</u> | • | Result | RL | | <u>DF</u> | Qua | alifiers |
| Acetone | | ND | 130 | 0 | 1.00 | | |
| Benzene | | ND | 5.1 | | 1.00 | | |
| Bromobenzene | | ND | 5.1 | | 1.00 | | |
| Bromochloromethane | | ND | 5.1 | | 1.00 | | |
| Bromodichloromethane | | ND | 5.1 | | 1.00 | | |
| Bromoform | | ND | 5.1 | | 1.00 | | |
| Bromomethane | | ND | 25 | | 1.00 | | |
| 2-Butanone | | ND | 51 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| sec-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| tert-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| Carbon Disulfide | | ND | 51 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.1 | | 1.00 | | |
| Chlorobenzene | | ND | 5.1 | | 1.00 | | |
| Chloroethane | | ND | 5.1 | | 1.00 | | |
| Chloroform | | ND | 5.1 | | 1.00 | | |
| Chloromethane | | ND | 25 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| Dibromochloromethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.1 | | 1.00 | | |
| Dibromomethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 2 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 5.1 1.00 1,1-Dichloropropene c-1,3-Dichloropropene ND 5.1 1.00 t-1,3-Dichloropropene ND 5.1 1.00 Ethylbenzene ND 5.1 1.00 2-Hexanone ND 51 1.00 Isopropylbenzene ND 5.1 1.00 p-Isopropyltoluene ND 5.1 1.00 Methylene Chloride ND 51 1.00 4-Methyl-2-Pentanone ND 51 1.00 Naphthalene ND 51 1.00 ND n-Propylbenzene 5.1 1.00 Styrene ND 5.1 1.00 1,1,1,2-Tetrachloroethane ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 Tetrachloroethene ND 5.1 1.00 Toluene ND 5.1 1.00 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichlorobenzene ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tert-Amyl-Methyl Ether (TAME)

1,4-Bromofluorobenzene

Ethanol

Surrogate

10

250

60-132

Control Limits

1.00

1.00

Qualifiers

ND

ND

97

Rec. (%)



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|--------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 3 of 48 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 100 | 63-141 | |
| 1,2-Dichloroethane-d4 | 99 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 4 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| SV-11-15 | 16-05-1326-2-A | 05/17/16 09:27 | Solid | GC/MS GGG | 05/18/16 | 05/18/16 23:32 | 160518L025 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 120 |) | 1.00 | | |
| Benzene | | ND | 5.0 | | 1.00 | | |
| Bromobenzene | | ND | 5.0 | | 1.00 | | |
| Bromochloromethane | | ND | 5.0 | | 1.00 | | |
| Bromodichloromethane | | ND | 5.0 | | 1.00 | | |
| Bromoform | | ND | 5.0 | | 1.00 | | |
| Bromomethane | | ND | 25 | | 1.00 | | |
| 2-Butanone | | ND | 50 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.0 | | 1.00 | | |
| sec-Butylbenzene | | ND | 5.0 | | 1.00 | | |
| tert-Butylbenzene | | ND | 5.0 | | 1.00 | | |
| Carbon Disulfide | | ND | 50 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.0 | | 1.00 | | |
| Chlorobenzene | | ND | 5.0 | | 1.00 | | |
| Chloroethane | | ND | 5.0 | | 1.00 | | |
| Chloroform | | ND | 5.0 | | 1.00 | | |
| Chloromethane | | ND | 25 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.0 | | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.0 | | 1.00 | | |
| Dibromochloromethane | | ND | 5.0 | | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 9.9 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.0 | | 1.00 | | |
| Dibromomethane | | ND | 5.0 | | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.0 | | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.0 | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.0 | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.0 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.0 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.0 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.0 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.0 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.0 | | 1.00 | | |



Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 5 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 5.0 1.00 1,1-Dichloropropene c-1,3-Dichloropropene ND 5.0 1.00 t-1,3-Dichloropropene ND 5.0 1.00 Ethylbenzene ND 5.0 1.00 2-Hexanone ND 50 1.00 Isopropylbenzene ND 5.0 1.00 p-Isopropyltoluene ND 5.0 1.00 Methylene Chloride ND 50 1.00 4-Methyl-2-Pentanone ND 50 1.00 Naphthalene ND 50 1.00 ND n-Propylbenzene 5.0 1.00 Styrene ND 5.0 1.00 1,1,1,2-Tetrachloroethane ND 5.0 1.00 1,1,2,2-Tetrachloroethane ND 5.0 1.00 Tetrachloroethene ND 5.0 1.00 Toluene ND 5.0 1.00 1,2,3-Trichlorobenzene ND 9.9 1.00 1,2,4-Trichlorobenzene ND 5.0 1.00 1,1,1-Trichloroethane ND 5.0 1.00 1,1,2-Trichloroethane ND 5.0 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 50 1.00 Trichloroethene ND 5.0 1.00 ND 1,2,3-Trichloropropane 5.0 1.00 1,2,4-Trimethylbenzene ND 5.0 1.00 Trichlorofluoromethane ND 50 1.00 1,3,5-Trimethylbenzene ND 5.0 1.00 Vinyl Acetate ND 50 1.00 Vinyl Chloride ND 5.0 1.00 p/m-Xylene ND 5.0 1.00 o-Xylene ND 5.0 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.0 1.00 Tert-Butyl Alcohol (TBA) ND 50 1.00 Diisopropyl Ether (DIPE) ND 9.9 1.00 Ethyl-t-Butyl Ether (ETBE) ND 9.9 1.00 Tert-Amyl-Methyl Ether (TAME) ND 9.9 1.00 Ethanol ND 250 1.00 Surrogate Rec. (%) **Control Limits** Qualifiers

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

1,4-Bromofluorobenzene

60-132

101



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|--------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 6 of 48 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 100 | 63-141 | |
| 1,2-Dichloroethane-d4 | 105 | 62-146 | |
| Toluene-d8 | 102 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 7 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| SV-12-5 | 16-05-1326-3-A | 05/17/16 09:55 | Solid | GC/MS GGG | 05/18/16 | 05/18/16 23:58 | 160518L025 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 130 | 0 | 1.00 | | |
| Benzene | | ND | 5.1 | | 1.00 | | |
| Bromobenzene | | ND | 5.1 | | 1.00 | | |
| Bromochloromethane | | ND | 5.1 | | 1.00 | | |
| Bromodichloromethane | | ND | 5.1 | | 1.00 | | |
| Bromoform | | ND | 5.1 | | 1.00 | | |
| Bromomethane | | ND | 26 | | 1.00 | | |
| 2-Butanone | | ND | 51 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| sec-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| tert-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| Carbon Disulfide | | ND | 51 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.1 | | 1.00 | | |
| Chlorobenzene | | ND | 5.1 | | 1.00 | | |
| Chloroethane | | ND | 5.1 | | 1.00 | | |
| Chloroform | | ND | 5.1 | | 1.00 | | |
| Chloromethane | | ND | 26 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| Dibromochloromethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.1 | | 1.00 | | |
| Dibromomethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |



Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethanol

Surrogate

Ethyl-t-Butyl Ether (ETBE)

1,4-Bromofluorobenzene

Tert-Amyl-Methyl Ether (TAME)

Analytical Report

Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 8 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 5.1 1.00 1,1-Dichloropropene c-1,3-Dichloropropene ND 5.1 1.00 t-1,3-Dichloropropene ND 5.1 1.00 Ethylbenzene ND 5.1 1.00 2-Hexanone ND 51 1.00 Isopropylbenzene ND 5.1 1.00 p-Isopropyltoluene ND 5.1 1.00 Methylene Chloride ND 51 1.00 4-Methyl-2-Pentanone ND 51 1.00 Naphthalene ND 51 1.00 ND n-Propylbenzene 5.1 1.00 Styrene ND 5.1 1.00 1,1,1,2-Tetrachloroethane ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 Tetrachloroethene ND 5.1 1.00 Toluene ND 5.1 1.00 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichlorobenzene ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

51

10

10

10

260

60-132

Control Limits

1.00

1.00

1.00

1.00

1.00

Qualifiers

ND

ND

ND

ND

ND

98

Rec. (%)



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|--------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 9 of 48 |

| <u>Surrogate</u> | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 101 | 63-141 | |
| 1,2-Dichloroethane-d4 | 103 | 62-146 | |
| Toluene-d8 | 102 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 10 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-------------|
| SV-12-15 | 16-05-1326-4-A | 05/17/16 10:09 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 00:24 | 160518L025 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | alifiers |
| Acetone | | ND | 120 |) | 1.00 | | |
| Benzene | | ND | 4.8 | | 1.00 | | |
| Bromobenzene | | ND | 4.8 | | 1.00 | | |
| Bromochloromethane | | ND | 4.8 | | 1.00 | | |
| Bromodichloromethane | | ND | 4.8 | | 1.00 | | |
| Bromoform | | ND | 4.8 | | 1.00 | | |
| Bromomethane | | ND | 24 | | 1.00 | | |
| 2-Butanone | | ND | 48 | | 1.00 | | |
| n-Butylbenzene | | ND | 4.8 | | 1.00 | | |
| sec-Butylbenzene | | ND | 4.8 | | 1.00 | | |
| tert-Butylbenzene | | ND | 4.8 | | 1.00 | | |
| Carbon Disulfide | | ND | 48 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 4.8 | | 1.00 | | |
| Chlorobenzene | | ND | 4.8 | | 1.00 | | |
| Chloroethane | | ND | 4.8 | | 1.00 | | |
| Chloroform | | ND | 4.8 | | 1.00 | | |
| Chloromethane | | ND | 24 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 4.8 | | 1.00 | | |
| 4-Chlorotoluene | | ND | 4.8 | | 1.00 | | |
| Dibromochloromethane | | ND | 4.8 | | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 9.6 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 4.8 | | 1.00 | | |
| Dibromomethane | | ND | 4.8 | | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 4.8 | | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 4.8 | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 4.8 | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 4.8 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 4.8 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 4.8 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 4.8 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 4.8 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 4.8 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 4.8 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 4.8 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 4.8 | | 1.00 | | |



 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/kg

 Project: 185803664
 Page 11 of 48

| | | | | 1 490 11 01 10 |
|---------------------------------------|---------------|----------------|------------|-------------------|
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Qualifiers</u> |
| 1,1-Dichloropropene | ND | 4.8 | 1.00 | |
| c-1,3-Dichloropropene | ND | 4.8 | 1.00 | |
| t-1,3-Dichloropropene | ND | 4.8 | 1.00 | |
| Ethylbenzene | ND | 4.8 | 1.00 | |
| 2-Hexanone | ND | 48 | 1.00 | |
| Isopropylbenzene | ND | 4.8 | 1.00 | |
| p-Isopropyltoluene | ND | 4.8 | 1.00 | |
| Methylene Chloride | ND | 48 | 1.00 | |
| 4-Methyl-2-Pentanone | ND | 48 | 1.00 | |
| Naphthalene | ND | 48 | 1.00 | |
| n-Propylbenzene | ND | 4.8 | 1.00 | |
| Styrene | ND | 4.8 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ND | 4.8 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | ND | 4.8 | 1.00 | |
| Tetrachloroethene | ND | 4.8 | 1.00 | |
| Toluene | ND | 4.8 | 1.00 | |
| 1,2,3-Trichlorobenzene | ND | 9.6 | 1.00 | |
| 1,2,4-Trichlorobenzene | ND | 4.8 | 1.00 | |
| 1,1,1-Trichloroethane | ND | 4.8 | 1.00 | |
| 1,1,2-Trichloroethane | ND | 4.8 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 48 | 1.00 | |
| Trichloroethene | ND | 4.8 | 1.00 | |
| 1,2,3-Trichloropropane | ND | 4.8 | 1.00 | |
| 1,2,4-Trimethylbenzene | ND | 4.8 | 1.00 | |
| Trichlorofluoromethane | ND | 48 | 1.00 | |
| 1,3,5-Trimethylbenzene | ND | 4.8 | 1.00 | |
| Vinyl Acetate | ND | 48 | 1.00 | |
| Vinyl Chloride | ND | 4.8 | 1.00 | |
| p/m-Xylene | ND | 4.8 | 1.00 | |
| o-Xylene | ND | 4.8 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 4.8 | 1.00 | |
| Tert-Butyl Alcohol (TBA) | ND | 48 | 1.00 | |
| Diisopropyl Ether (DIPE) | ND | 9.6 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 9.6 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 9.6 | 1.00 | |
| Ethanol | ND | 240 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | |
| 1,4-Bromofluorobenzene | 98 | 60-132 | | |





| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 12 of 48 |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 102 | 63-141 | |
| 1,2-Dichloroethane-d4 | 103 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 13 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|----------------|
| SV-13-5 | 16-05-1326-5-A | 05/17/16 10:33 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 00:51 | 160518L025 |
| <u>Parameter</u> | | Result | RL | : | <u>DF</u> | Qua | <u>lifiers</u> |
| Acetone | | ND | 13 | 0 | 1.00 | | |
| Benzene | | ND | 5.1 | | 1.00 | | |
| Bromobenzene | | ND | 5.1 | | 1.00 | | |
| Bromochloromethane | | ND | 5.1 | | 1.00 | | |
| Bromodichloromethane | | ND | 5.1 | | 1.00 | | |
| Bromoform | | ND | 5.1 | | 1.00 | | |
| Bromomethane | | ND | 26 | | 1.00 | | |
| 2-Butanone | | ND | 51 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| sec-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| tert-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| Carbon Disulfide | | ND | 51 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.1 | | 1.00 | | |
| Chlorobenzene | | ND | 5.1 | | 1.00 | | |
| Chloroethane | | ND | 5.1 | | 1.00 | | |
| Chloroform | | ND | 5.1 | | 1.00 | | |
| Chloromethane | | ND | 26 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| Dibromochloromethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.1 | | 1.00 | | |
| Dibromomethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |



 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/kg

 Project: 185803664
 Page 14 of 48

| 110,000.10000004 | | | | 1 agc 14 01 40 |
|---------------------------------------|---------------|----------------|-------------------|-------------------|
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Qualifiers</u> |
| 1,1-Dichloropropene | ND | 5.1 | 1.00 | |
| c-1,3-Dichloropropene | ND | 5.1 | 1.00 | |
| t-1,3-Dichloropropene | ND | 5.1 | 1.00 | |
| Ethylbenzene | ND | 5.1 | 1.00 | |
| 2-Hexanone | ND | 51 | 1.00 | |
| Isopropylbenzene | ND | 5.1 | 1.00 | |
| p-Isopropyltoluene | ND | 5.1 | 1.00 | |
| Methylene Chloride | ND | 51 | 1.00 | |
| 4-Methyl-2-Pentanone | ND | 51 | 1.00 | |
| Naphthalene | ND | 51 | 1.00 | |
| n-Propylbenzene | ND | 5.1 | 1.00 | |
| Styrene | ND | 5.1 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ND | 5.1 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.1 | 1.00 | |
| Tetrachloroethene | ND | 5.1 | 1.00 | |
| Toluene | ND | 5.1 | 1.00 | |
| 1,2,3-Trichlorobenzene | ND | 10 | 1.00 | |
| 1,2,4-Trichlorobenzene | ND | 5.1 | 1.00 | |
| 1,1,1-Trichloroethane | ND | 5.1 | 1.00 | |
| 1,1,2-Trichloroethane | ND | 5.1 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 51 | 1.00 | |
| Trichloroethene | ND | 5.1 | 1.00 | |
| 1,2,3-Trichloropropane | ND | 5.1 | 1.00 | |
| 1,2,4-Trimethylbenzene | ND | 5.1 | 1.00 | |
| Trichlorofluoromethane | ND | 51 | 1.00 | |
| 1,3,5-Trimethylbenzene | ND | 5.1 | 1.00 | |
| Vinyl Acetate | ND | 51 | 1.00 | |
| Vinyl Chloride | ND | 5.1 | 1.00 | |
| p/m-Xylene | ND | 5.1 | 1.00 | |
| o-Xylene | ND | 5.1 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 5.1 | 1.00 | |
| Tert-Butyl Alcohol (TBA) | ND | 51 | 1.00 | |
| Diisopropyl Ether (DIPE) | ND | 10 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 10 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 10 | 1.00 | |
| Ethanol | ND | 260 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> | |
| 1,4-Bromofluorobenzene | 97 | 60-132 | | |



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 15 of 48 |

| <u>Surrogate</u> | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 101 | 63-141 | |
| 1,2-Dichloroethane-d4 | 102 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 16 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| SV-13-15 | 16-05-1326-6-A | 05/17/16 10:47 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 01:18 | 160518L025 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 130 | 0 | 1.00 | | |
| Benzene | | ND | 5.1 | | 1.00 | | |
| Bromobenzene | | ND | 5.1 | | 1.00 | | |
| Bromochloromethane | | ND | 5.1 | | 1.00 | | |
| Bromodichloromethane | | ND | 5.1 | | 1.00 | | |
| Bromoform | | ND | 5.1 | | 1.00 | | |
| Bromomethane | | ND | 26 | | 1.00 | | |
| 2-Butanone | | ND | 51 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| sec-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| tert-Butylbenzene | | ND | 5.1 | | 1.00 | | |
| Carbon Disulfide | | ND | 51 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.1 | | 1.00 | | |
| Chlorobenzene | | ND | 5.1 | | 1.00 | | |
| Chloroethane | | ND | 5.1 | | 1.00 | | |
| Chloroform | | ND | 5.1 | | 1.00 | | |
| Chloromethane | | ND | 26 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.1 | | 1.00 | | |
| Dibromochloromethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.1 | | 1.00 | | |
| Dibromomethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.1 | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.1 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.1 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.1 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.1 | | 1.00 | | |



o-Xylene

Ethanol

Surrogate

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethyl-t-Butyl Ether (ETBE)

1,4-Bromofluorobenzene

Tert-Amyl-Methyl Ether (TAME)

Analytical Report

Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 17 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 5.1 1.00 1,1-Dichloropropene c-1,3-Dichloropropene ND 5.1 1.00 t-1,3-Dichloropropene ND 5.1 1.00 Ethylbenzene ND 5.1 1.00 2-Hexanone ND 51 1.00 Isopropylbenzene ND 5.1 1.00 p-Isopropyltoluene ND 5.1 1.00 Methylene Chloride ND 51 1.00 4-Methyl-2-Pentanone ND 51 1.00 Naphthalene ND 51 1.00 ND n-Propylbenzene 5.1 1.00 Styrene ND 5.1 1.00 1,1,1,2-Tetrachloroethane ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 Tetrachloroethene ND 5.1 1.00 Toluene ND 5.1 1.00 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichlorobenzene ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

ND

ND

ND

ND

ND

ND

ND

98

Rec. (%)

5.1

5.1

51

10

10

10

260

60-132

Control Limits

1.00

1.00

1.00

1.00

1.00

1.00

1.00

Qualifiers



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 18 of 48 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 100 | 63-141 | |
| 1,2-Dichloroethane-d4 | 100 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 19 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-------------|
| SV-17-5 | 16-05-1326-7-A | 05/17/16 12:00 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 01:44 | 160518L025 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | alifiers |
| Acetone | | ND | 12 | 0 | 1.00 | | |
| Benzene | | ND | 4.8 | 1 | 1.00 | | |
| Bromobenzene | | ND | 4.8 | } | 1.00 | | |
| Bromochloromethane | | ND | 4.8 | 1 | 1.00 | | |
| Bromodichloromethane | | ND | 4.8 | 1 | 1.00 | | |
| Bromoform | | ND | 4.8 | 1 | 1.00 | | |
| Bromomethane | | ND | 24 | | 1.00 | | |
| 2-Butanone | | ND | 48 | | 1.00 | | |
| n-Butylbenzene | | ND | 4.8 | ; | 1.00 | | |
| sec-Butylbenzene | | ND | 4.8 | ; | 1.00 | | |
| tert-Butylbenzene | | ND | 4.8 | ; | 1.00 | | |
| Carbon Disulfide | | ND | 48 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 4.8 | ; | 1.00 | | |
| Chlorobenzene | | ND | 4.8 | ; | 1.00 | | |
| Chloroethane | | ND | 4.8 | ; | 1.00 | | |
| Chloroform | | ND | 4.8 | ; | 1.00 | | |
| Chloromethane | | ND | 24 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 4.8 | ; | 1.00 | | |
| 4-Chlorotoluene | | ND | 4.8 | ; | 1.00 | | |
| Dibromochloromethane | | ND | 4.8 | ; | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 9.6 | ; | 1.00 | | |
| 1,2-Dibromoethane | | ND | 4.8 | ; | 1.00 | | |
| Dibromomethane | | ND | 4.8 | ; | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 4.8 | 1 | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 4.8 | ; | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 4.8 | 1 | 1.00 | | |
| Dichlorodifluoromethane | | ND | 4.8 | 1 | 1.00 | | |
| 1,1-Dichloroethane | | ND | 4.8 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 4.8 | 1 | 1.00 | | |
| 1,1-Dichloroethene | | ND | 4.8 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 4.8 | ; | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 4.8 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 4.8 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 4.8 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 4.8 | ; | 1.00 | | |



o-Xylene

Ethanol

Surrogate

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethyl-t-Butyl Ether (ETBE)

1,4-Bromofluorobenzene

Tert-Amyl-Methyl Ether (TAME)

Analytical Report

Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 20 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 1.00 1,1-Dichloropropene 4.8 c-1,3-Dichloropropene ND 4.8 1.00 t-1,3-Dichloropropene ND 4.8 1.00 Ethylbenzene ND 4.8 1.00 2-Hexanone ND 48 1.00 Isopropylbenzene ND 4.8 1.00 p-Isopropyltoluene ND 4.8 1.00 Methylene Chloride ND 48 1.00 4-Methyl-2-Pentanone ND 48 1.00 Naphthalene ND 48 1.00 ND n-Propylbenzene 4.8 1.00 Styrene ND 4.8 1.00 1,1,1,2-Tetrachloroethane ND 4.8 1.00 1,1,2,2-Tetrachloroethane ND 4.8 1.00 Tetrachloroethene ND 4.8 1.00 Toluene ND 4.8 1.00 1,2,3-Trichlorobenzene ND 9.6 1.00 1,2,4-Trichlorobenzene ND 4.8 1.00 1,1,1-Trichloroethane ND 4.8 1.00 1,1,2-Trichloroethane ND 4.8 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 48 1.00 Trichloroethene ND 4.8 1.00 ND 1,2,3-Trichloropropane 4.8 1.00 1,2,4-Trimethylbenzene ND 1.00 4.8 Trichlorofluoromethane ND 48 1.00 1,3,5-Trimethylbenzene ND 4.8 1.00 Vinyl Acetate ND 48 1.00 Vinyl Chloride ND 4.8 1.00 p/m-Xylene ND 4.8 1.00

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

ND

ND

ND

ND

ND

ND

ND

98

Rec. (%)

4.8

4.8

48

9.6

9.6

9.6

240

60-132

Control Limits

1.00

1.00

1.00

1.00

1.00

1.00

1.00

Qualifiers



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 21 of 48 |

| <u>Surrogate</u> | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 101 | 63-141 | |
| 1,2-Dichloroethane-d4 | 101 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 22 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|----------|------------|------------------|-----------------------|-----------------|
| SV-17-15 | 16-05-1326-8-A | 05/17/16 12:10 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 02:11 | 160518L025 |
| <u>Parameter</u> | | <u>Result</u> | <u>R</u> | <u>L</u> | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 12 | 20 | 1.00 | | |
| Benzene | | ND | 4. | 9 | 1.00 | | |
| Bromobenzene | | ND | 4. | 9 | 1.00 | | |
| Bromochloromethane | | ND | 4. | 9 | 1.00 | | |
| Bromodichloromethane | | ND | 4. | 9 | 1.00 | | |
| Bromoform | | ND | 4. | 9 | 1.00 | | |
| Bromomethane | | ND | 24 | 1 | 1.00 | | |
| 2-Butanone | | ND | 49 |) | 1.00 | | |
| n-Butylbenzene | | ND | 4. | 9 | 1.00 | | |
| sec-Butylbenzene | | ND | 4. | 9 | 1.00 | | |
| tert-Butylbenzene | | ND | 4. | 9 | 1.00 | | |
| Carbon Disulfide | | ND | 49 |) | 1.00 | | |
| Carbon Tetrachloride | | ND | 4. | 9 | 1.00 | | |
| Chlorobenzene | | ND | 4. | 9 | 1.00 | | |
| Chloroethane | | ND | 4. | 9 | 1.00 | | |
| Chloroform | | ND | 4. | 9 | 1.00 | | |
| Chloromethane | | ND | 24 | 1 | 1.00 | | |
| 2-Chlorotoluene | | ND | 4. | 9 | 1.00 | | |
| 4-Chlorotoluene | | ND | 4. | 9 | 1.00 | | |
| Dibromochloromethane | | ND | 4. | 9 | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 9. | 7 | 1.00 | | |
| 1,2-Dibromoethane | | ND | 4. | 9 | 1.00 | | |
| Dibromomethane | | ND | 4. | 9 | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 4. | 9 | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 4. | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 4. | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 4. | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 4. | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 4. | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 4. | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 4. | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 4. | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 4. | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 4. | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 4. | | 1.00 | | |



| Stantec | Da | ite Received: | | 05/18/16 | | |
|---------------------------------------|---------------|----------------|------------|--------------------|--|--|
| 25864-F Business Center Drive | Wo | ork Order: | 16-05-1326 | | | |
| Redlands, CA 92374-4515 | | Preparation: | | | | |
| 1.00mm, 07.02074 4010 | | Method: | | | | |
| | | nits: | | EPA 8260B ug/kg | | |
| Project: 185803664 | OI. | 111.5. | | Page 23 of 48 | | |
| F10Ject. 163803004 | | | | | | |
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | Qualifiers | | |
| 1,1-Dichloropropene | ND | 4.9 | 1.00 | | | |
| c-1,3-Dichloropropene | ND | 4.9 | 1.00 | | | |
| t-1,3-Dichloropropene | ND | 4.9 | 1.00 | | | |
| Ethylbenzene | ND | 4.9 | 1.00 | | | |
| 2-Hexanone | ND | 49 | 1.00 | | | |
| Isopropylbenzene | ND | 4.9 | 1.00 | | | |
| p-Isopropyltoluene | ND | 4.9 | 1.00 | | | |
| Methylene Chloride | ND | 49 | 1.00 | | | |
| 4-Methyl-2-Pentanone | ND | 49 | 1.00 | | | |
| Naphthalene | ND | 49 | 1.00 | | | |
| n-Propylbenzene | ND | 4.9 | 1.00 | | | |
| Styrene | ND | 4.9 | 1.00 | | | |
| 1,1,1,2-Tetrachloroethane | ND | 4.9 | 1.00 | | | |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 | 1.00 | | | |
| Tetrachloroethene | ND | 4.9 | 1.00 | | | |
| Toluene | ND | 4.9 | 1.00 | | | |
| 1,2,3-Trichlorobenzene | ND | 9.7 | 1.00 | | | |
| 1,2,4-Trichlorobenzene | ND | 4.9 | 1.00 | | | |
| 1,1,1-Trichloroethane | ND | 4.9 | 1.00 | | | |
| 1,1,2-Trichloroethane | ND | 4.9 | 1.00 | | | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 49 | 1.00 | | | |
| Trichloroethene | ND | 4.9 | 1.00 | | | |
| 1,2,3-Trichloropropane | ND | 4.9 | 1.00 | | | |
| 1,2,4-Trimethylbenzene | ND | 4.9 | 1.00 | | | |
| Trichlorofluoromethane | ND | 49 | 1.00 | | | |
| 1,3,5-Trimethylbenzene | ND | 4.9 | 1.00 | | | |
| Vinyl Acetate | ND | 49 | 1.00 | | | |
| Vinyl Chloride | ND | 4.9 | 1.00 | | | |
| p/m-Xylene | ND | 4.9 | 1.00 | | | |
| o-Xylene | ND | 4.9 | 1.00 | | | |
| Methyl-t-Butyl Ether (MTBE) | ND | 4.9 | 1.00 | | | |
| Tert-Butyl Alcohol (TBA) | ND | 49 | 1.00 | | | |
| Diisopropyl Ether (DIPE) | ND | 9.7 | 1.00 | | | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 9.7 | 1.00 | | | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 9.7 | 1.00 | | | |
| Ethanol | ND | 240 | 1.00 | | | |
| | | - | | | | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

1,4-Bromofluorobenzene

60-132

98



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 24 of 48 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 102 | 63-141 | |
| 1,2-Dichloroethane-d4 | 102 | 62-146 | |
| Toluene-d8 | 100 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 25 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| SV-14-5 | 16-05-1326-9-A | 05/17/16 12:38 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 02:37 | 160518L025 |
| <u>Parameter</u> | | Result | RL | : | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 12 | 0 | 1.00 | | |
| Benzene | | ND | 4.9 |) | 1.00 | | |
| Bromobenzene | | ND | 4.9 |) | 1.00 | | |
| Bromochloromethane | | ND | 4.9 |) | 1.00 | | |
| Bromodichloromethane | | ND | 4.9 |) | 1.00 | | |
| Bromoform | | ND | 4.9 |) | 1.00 | | |
| Bromomethane | | ND | 24 | | 1.00 | | |
| 2-Butanone | | ND | 49 | | 1.00 | | |
| n-Butylbenzene | | ND | 4.9 |) | 1.00 | | |
| sec-Butylbenzene | | ND | 4.9 |) | 1.00 | | |
| tert-Butylbenzene | | ND | 4.9 |) | 1.00 | | |
| Carbon Disulfide | | ND | 49 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 4.9 |) | 1.00 | | |
| Chlorobenzene | | ND | 4.9 |) | 1.00 | | |
| Chloroethane | | ND | 4.9 |) | 1.00 | | |
| Chloroform | | ND | 4.9 |) | 1.00 | | |
| Chloromethane | | ND | 24 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 4.9 |) | 1.00 | | |
| 4-Chlorotoluene | | ND | 4.9 |) | 1.00 | | |
| Dibromochloromethane | | ND | 4.9 |) | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 9.7 | • | 1.00 | | |
| 1,2-Dibromoethane | | ND | 4.9 |) | 1.00 | | |
| Dibromomethane | | ND | 4.9 |) | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 4.9 |) | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 4.9 |) | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 4.9 |) | 1.00 | | |
| Dichlorodifluoromethane | | ND | 4.9 |) | 1.00 | | |
| 1,1-Dichloroethane | | ND | 4.9 |) | 1.00 | | |
| 1,2-Dichloroethane | | ND | 4.9 |) | 1.00 | | |
| 1,1-Dichloroethene | | ND | 4.9 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 4.9 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 4.9 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 4.9 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 4.9 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 4.9 |) | 1.00 | | |



Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 26 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 1.00 1,1-Dichloropropene 4.9 c-1,3-Dichloropropene ND 4.9 1.00 t-1,3-Dichloropropene ND 4.9 1.00 Ethylbenzene ND 4.9 1.00 2-Hexanone ND 49 1.00 Isopropylbenzene ND 4.9 1.00 p-Isopropyltoluene ND 4.9 1.00 Methylene Chloride ND 49 1.00 4-Methyl-2-Pentanone ND 49 1.00 Naphthalene ND 49 1.00 ND n-Propylbenzene 4.9 1.00 Styrene ND 4.9 1.00 1,1,1,2-Tetrachloroethane ND 4.9 1.00 1,1,2,2-Tetrachloroethane ND 4.9 1.00 Tetrachloroethene ND 4.9 1.00 Toluene ND 4.9 1.00 1,2,3-Trichlorobenzene ND 9.7 1.00 1,2,4-Trichlorobenzene ND 4.9 1.00 1,1,1-Trichloroethane ND 4.9 1.00 1,1,2-Trichloroethane ND 4.9 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 49 1.00 Trichloroethene ND 4.9 1.00 1,2,3-Trichloropropane ND 4.9 1.00 1,2,4-Trimethylbenzene ND 1.00 4.9 Trichlorofluoromethane ND 49 1.00 1,3,5-Trimethylbenzene ND 4.9 1.00 Vinyl Acetate ND 49 1.00 Vinyl Chloride ND 4.9 1.00 p/m-Xylene ND 4.9 1.00 o-Xylene ND 4.9 1.00 Methyl-t-Butyl Ether (MTBE) ND 4.9 1.00 Tert-Butyl Alcohol (TBA) ND 49 1.00 Diisopropyl Ether (DIPE) ND 9.7 1.00 Ethyl-t-Butyl Ether (ETBE) ND 9.7 1.00 Tert-Amyl-Methyl Ether (TAME) ND 9.7 1.00 Ethanol ND 1.00 240 Surrogate Rec. (%) **Control Limits** Qualifiers 1,4-Bromofluorobenzene 97 60-132





| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 27 of 48 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 101 | 63-141 | |
| 1,2-Dichloroethane-d4 | 100 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 28 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| SV-14-15 | 16-05-1326-10-A | 05/17/16 12:50 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 03:04 | 160518L025 |
| <u>Parameter</u> | | Result | RL | • | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 12 | 0 | 1.00 | | |
| Benzene | | ND | 4.8 | 3 | 1.00 | | |
| Bromobenzene | | ND | 4.8 | 3 | 1.00 | | |
| Bromochloromethane | | ND | 4.8 | 3 | 1.00 | | |
| Bromodichloromethane | | ND | 4.8 | 3 | 1.00 | | |
| Bromoform | | ND | 4.8 | 3 | 1.00 | | |
| Bromomethane | | ND | 24 | | 1.00 | | |
| 2-Butanone | | ND | 48 | | 1.00 | | |
| n-Butylbenzene | | ND | 4.8 | 3 | 1.00 | | |
| sec-Butylbenzene | | ND | 4.8 | 3 | 1.00 | | |
| tert-Butylbenzene | | ND | 4.8 | 3 | 1.00 | | |
| Carbon Disulfide | | ND | 48 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 4.8 | 3 | 1.00 | | |
| Chlorobenzene | | ND | 4.8 | 3 | 1.00 | | |
| Chloroethane | | ND | 4.8 | 3 | 1.00 | | |
| Chloroform | | ND | 4.8 | 3 | 1.00 | | |
| Chloromethane | | ND | 24 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 4.8 | 3 | 1.00 | | |
| 4-Chlorotoluene | | ND | 4.8 | 3 | 1.00 | | |
| Dibromochloromethane | | ND | 4.8 | 3 | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 9.5 | 5 | 1.00 | | |
| 1,2-Dibromoethane | | ND | 4.8 | 3 | 1.00 | | |
| Dibromomethane | | ND | 4.8 | 3 | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 4.8 | 3 | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 4.8 | 3 | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 4.8 | 3 | 1.00 | | |
| Dichlorodifluoromethane | | ND | 4.8 | 3 | 1.00 | | |
| 1,1-Dichloroethane | | ND | 4.8 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 4.8 | 3 | 1.00 | | |
| 1,1-Dichloroethene | | ND | 4.8 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 4.8 | 3 | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 4.8 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 4.8 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 4.8 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 4.8 | 3 | 1.00 | | |



| ,1-Dichloropropene N | Work C Prepara Method Units: Result | ation: | | 16-05-1326 EPA 5030C EPA 8260B ug/kg Page 29 of 48 |
|---------------------------------------|---|----------------|-------------------|--|
| Project: 185803664 Parameter E | Method Units: | d: | | EPA 8260B ug/kg |
| Project: 185803664 Parameter E | Method Units: | d: | | EPA 8260B ug/kg |
| Parameter E | Units: | | | ug/kg |
| Parameter E | <u>Result</u> | RI | | |
| Parameter E | | RI | | EAUE /9 UL 40 |
| ,1-Dichloropropene N | | RI | | - 1 ago 20 01 10 |
| | 1D | | <u>DF</u> | <u>Qualifiers</u> |
| | | 4.8 | 1.00 | |
| · · · · · · · · · · · · · · · · · · · | ND | 4.8 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| • | ND | 4.8 | 1.00 | |
| | ND | 48 | 1.00 | |
| sopropylbenzene | ND | 4.8 | 1.00 | |
| o-Isopropyltoluene N | ND | 4.8 | 1.00 | |
| Methylene Chloride N | ND | 48 | 1.00 | |
| 4-Methyl-2-Pentanone N | ND | 48 | 1.00 | |
| Naphthalene N | ND | 48 | 1.00 | |
| n-Propylbenzene N | ND | 4.8 | 1.00 | |
| Styrene N | ND | 4.8 | 1.00 | |
| I,1,1,2-Tetrachloroethane | ND | 4.8 | 1.00 | |
| I,1,2,2-Tetrachloroethane | ND | 4.8 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| Foluene N | ND | 4.8 | 1.00 | |
| | ND | 9.5 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| | ND | 48 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| • | ND | 48 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| | ND | 48 | 1.00 | |
| · | | 4.8 | | |
| · | ND | | 1.00 | |
| • | ND | 4.8 | 1.00 | |
| • | ND | 4.8 | 1.00 | |
| | ND | 4.8 | 1.00 | |
| · | ND | 48 | 1.00 | |
| | ND | 9.5 | 1.00 | |
| | ND | 9.5 | 1.00 | |
| | ND | 9.5 | 1.00 | |
| Ethanol N | ND | 240 | 1.00 | |
| Surrogate F | Rec. (%) | Control Limits | <u>Qualifiers</u> | |
| - | 98 | 60-132 | | |





| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 30 of 48 |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 102 | 63-141 | |
| 1,2-Dichloroethane-d4 | 105 | 62-146 | |
| Toluene-d8 | 100 | 80-120 | |



Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 31 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| SV-16-5 | 16-05-1326-11-A | 05/17/16 13:07 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 03:30 | 160518L025 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 130 | 0 | 1.00 | | |
| Benzene | | ND | 5.2 | ! | 1.00 | | |
| Bromobenzene | | ND | 5.2 | ! | 1.00 | | |
| Bromochloromethane | | ND | 5.2 | ! | 1.00 | | |
| Bromodichloromethane | | ND | 5.2 | ! | 1.00 | | |
| Bromoform | | ND | 5.2 | | 1.00 | | |
| Bromomethane | | ND | 26 | | 1.00 | | |
| 2-Butanone | | ND | 52 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.2 | ! | 1.00 | | |
| sec-Butylbenzene | | ND | 5.2 | ! | 1.00 | | |
| tert-Butylbenzene | | ND | 5.2 | ! | 1.00 | | |
| Carbon Disulfide | | ND | 52 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.2 | ! | 1.00 | | |
| Chlorobenzene | | ND | 5.2 | ! | 1.00 | | |
| Chloroethane | | ND | 5.2 | ! | 1.00 | | |
| Chloroform | | ND | 5.2 | ! | 1.00 | | |
| Chloromethane | | ND | 26 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.2 | <u>.</u> | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.2 | ! | 1.00 | | |
| Dibromochloromethane | | ND | 5.2 | ! | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.2 | ! | 1.00 | | |
| Dibromomethane | | ND | 5.2 | <u>.</u> | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.2 | <u>.</u> | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.2 | ! | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.2 | <u>.</u> | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.2 | ! | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.2 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.2 | <u>.</u> | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.2 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.2 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.2 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.2 | ! | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.2 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.2 |) : | 1.00 | | |



 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/kg

 Project: 185803664
 Page 32 of 48

| 110,000.10000004 | | | | 1 agc 32 01 40 |
|---------------------------------------|----------|----------------|------------|----------------|
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | Qualifiers |
| 1,1-Dichloropropene | ND | 5.2 | 1.00 | |
| c-1,3-Dichloropropene | ND | 5.2 | 1.00 | |
| t-1,3-Dichloropropene | ND | 5.2 | 1.00 | |
| Ethylbenzene | ND | 5.2 | 1.00 | |
| 2-Hexanone | ND | 52 | 1.00 | |
| Isopropylbenzene | ND | 5.2 | 1.00 | |
| p-Isopropyltoluene | ND | 5.2 | 1.00 | |
| Methylene Chloride | ND | 52 | 1.00 | |
| 4-Methyl-2-Pentanone | ND | 52 | 1.00 | |
| Naphthalene | ND | 52 | 1.00 | |
| n-Propylbenzene | ND | 5.2 | 1.00 | |
| Styrene | ND | 5.2 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ND | 5.2 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.2 | 1.00 | |
| Tetrachloroethene | ND | 5.2 | 1.00 | |
| Toluene | ND | 5.2 | 1.00 | |
| 1,2,3-Trichlorobenzene | ND | 10 | 1.00 | |
| 1,2,4-Trichlorobenzene | ND | 5.2 | 1.00 | |
| 1,1,1-Trichloroethane | ND | 5.2 | 1.00 | |
| 1,1,2-Trichloroethane | ND | 5.2 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 52 | 1.00 | |
| Trichloroethene | ND | 5.2 | 1.00 | |
| 1,2,3-Trichloropropane | ND | 5.2 | 1.00 | |
| 1,2,4-Trimethylbenzene | ND | 5.2 | 1.00 | |
| Trichlorofluoromethane | ND | 52 | 1.00 | |
| 1,3,5-Trimethylbenzene | ND | 5.2 | 1.00 | |
| Vinyl Acetate | ND | 52 | 1.00 | |
| Vinyl Chloride | ND | 5.2 | 1.00 | |
| p/m-Xylene | ND | 5.2 | 1.00 | |
| o-Xylene | ND | 5.2 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 5.2 | 1.00 | |
| Tert-Butyl Alcohol (TBA) | ND | 52 | 1.00 | |
| Diisopropyl Ether (DIPE) | ND | 10 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 10 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 10 | 1.00 | |
| Ethanol | ND | 260 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | |
| 1,4-Bromofluorobenzene | 96 | 60-132 | | |



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Proiect: 185803664 | | Page 33 of 48 |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 101 | 63-141 | |
| 1,2-Dichloroethane-d4 | 100 | 62-146 | |
| Toluene-d8 | 100 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 34 of 48

| Client Sample Number Lab Sample Date/Time Matrix Instrument Date Date/Time Quality Collected Prepared Analyzed | C Batch ID |
|--|------------|
| SV-16-15 16-05-1326-12-A 05/17/16 Solid GC/MS GGG 05/18/16 05/19/16 16 13:20 07:56 | 0518L054 |
| <u>Parameter</u> <u>Result</u> <u>RL</u> <u>DF</u> <u>Qualifiers</u> | <u>.</u> |
| Acetone ND 120 1.00 | |
| Benzene ND 4.9 1.00 | |
| Bromobenzene ND 4.9 1.00 | |
| Bromochloromethane ND 4.9 1.00 | |
| Bromodichloromethane ND 4.9 1.00 | |
| Bromoform ND 4.9 1.00 | |
| Bromomethane ND 25 1.00 | |
| 2-Butanone ND 49 1.00 | |
| n-Butylbenzene ND 4.9 1.00 | |
| sec-Butylbenzene ND 4.9 1.00 | |
| tert-Butylbenzene ND 4.9 1.00 | |
| Carbon Disulfide ND 49 1.00 | |
| Carbon Tetrachloride ND 4.9 1.00 | |
| Chlorobenzene ND 4.9 1.00 | |
| Chloroethane ND 4.9 1.00 | |
| Chloroform ND 4.9 1.00 | |
| Chloromethane ND 25 1.00 | |
| 2-Chlorotoluene ND 4.9 1.00 | |
| 4-Chlorotoluene ND 4.9 1.00 | |
| Dibromochloromethane ND 4.9 1.00 | |
| 1,2-Dibromo-3-Chloropropane ND 9.8 1.00 | |
| 1,2-Dibromoethane ND 4.9 1.00 | |
| Dibromomethane ND 4.9 1.00 | |
| 1,2-Dichlorobenzene ND 4.9 1.00 | |
| 1,3-Dichlorobenzene ND 4.9 1.00 | |
| 1,4-Dichlorobenzene ND 4.9 1.00 | |
| Dichlorodifluoromethane ND 4.9 1.00 | |
| 1,1-Dichloroethane ND 4.9 1.00 | |
| 1,2-Dichloroethane ND 4.9 1.00 | |
| 1,1-Dichloroethene ND 4.9 1.00 | |
| c-1,2-Dichloroethene ND 4.9 1.00 | |
| t-1,2-Dichloroethene ND 4.9 1.00 | |
| 1,2-Dichloropropane ND 4.9 1.00 | |
| 1,3-Dichloropropane ND 4.9 1.00 | |
| 2,2-Dichloropropane ND 4.9 1.00 | |



Vinyl Chloride

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethyl-t-Butyl Ether (ETBE)

1,4-Bromofluorobenzene

Tert-Amyl-Methyl Ether (TAME)

p/m-Xylene

o-Xylene

Ethanol

Surrogate

Analytical Report

Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 35 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 1.00 1,1-Dichloropropene 4.9 c-1,3-Dichloropropene ND 4.9 1.00 t-1,3-Dichloropropene ND 4.9 1.00 Ethylbenzene ND 4.9 1.00 2-Hexanone ND 49 1.00 Isopropylbenzene ND 4.9 1.00 p-Isopropyltoluene ND 4.9 1.00 Methylene Chloride ND 49 1.00 4-Methyl-2-Pentanone ND 49 1.00 Naphthalene ND 49 1.00 ND n-Propylbenzene 4.9 1.00 Styrene ND 4.9 1.00 1,1,1,2-Tetrachloroethane ND 4.9 1.00 1,1,2,2-Tetrachloroethane ND 4.9 1.00 Tetrachloroethene ND 4.9 1.00 Toluene ND 4.9 1.00 1,2,3-Trichlorobenzene ND 9.8 1.00 1,2,4-Trichlorobenzene ND 4.9 1.00 1,1,1-Trichloroethane ND 4.9 1.00 1,1,2-Trichloroethane ND 4.9 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 49 1.00 Trichloroethene ND 4.9 1.00 ND 1,2,3-Trichloropropane 4.9 1.00 1,2,4-Trimethylbenzene ND 1.00 4.9 Trichlorofluoromethane ND 49 1.00 1,3,5-Trimethylbenzene ND 4.9 1.00 Vinyl Acetate ND 49 1.00

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

ND

ND

ND

ND

ND

ND

ND

ND

ND

96

Rec. (%)

4.9

4.9

4.9

4.9

49

9.8

9.8

9.8

250

60-132

Control Limits

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

Qualifiers



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 36 of 48 |

| <u>Surrogate</u> | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 102 | 63-141 | |
| 1,2-Dichloroethane-d4 | 102 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 37 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| SV-15-5 | 16-05-1326-13-A | 05/17/16 13:55 | Solid | GC/MS GGG | 05/18/16 | 05/19/16 08:23 | 160518L054 |
| <u>Parameter</u> | | Result | RL | = | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 13 | 0 | 1.00 | | |
| Benzene | | ND | 5.2 | 2 | 1.00 | | |
| Bromobenzene | | ND | 5.2 | 2 | 1.00 | | |
| Bromochloromethane | | ND | 5.2 | 2 | 1.00 | | |
| Bromodichloromethane | | ND | 5.2 | 2 | 1.00 | | |
| Bromoform | | ND | 5.2 | 2 | 1.00 | | |
| Bromomethane | | ND | 26 | | 1.00 | | |
| 2-Butanone | | ND | 52 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.2 | 2 | 1.00 | | |
| sec-Butylbenzene | | ND | 5.2 | 2 | 1.00 | | |
| tert-Butylbenzene | | ND | 5.2 | 2 | 1.00 | | |
| Carbon Disulfide | | ND | 52 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.2 | 2 | 1.00 | | |
| Chlorobenzene | | ND | 5.2 | 2 | 1.00 | | |
| Chloroethane | | ND | 5.2 | 2 | 1.00 | | |
| Chloroform | | ND | 5.2 | 2 | 1.00 | | |
| Chloromethane | | ND | 26 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.2 | 2 | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.2 | 2 | 1.00 | | |
| Dibromochloromethane | | ND | 5.2 | 2 | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.2 | 2 | 1.00 | | |
| Dibromomethane | | ND | 5.2 | 2 | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.2 | 2 | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.2 | 2 | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.2 | 2 | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.2 | 2 | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.2 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.2 | 2 | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.2 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.2 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.2 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.2 | 2 | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.2 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.2 | 2 | 1.00 | | |



Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 38 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 5.2 1.00 1,1-Dichloropropene c-1,3-Dichloropropene ND 5.2 1.00 t-1,3-Dichloropropene ND 5.2 1.00 Ethylbenzene ND 5.2 1.00 2-Hexanone ND 52 1.00 Isopropylbenzene ND 5.2 1.00 p-Isopropyltoluene ND 5.2 1.00 Methylene Chloride ND 52 1.00 4-Methyl-2-Pentanone ND 52 1.00 Naphthalene ND 52 1.00 ND n-Propylbenzene 5.2 1.00 Styrene ND 5.2 1.00 1,1,1,2-Tetrachloroethane ND 5.2 1.00 1,1,2,2-Tetrachloroethane ND 5.2 1.00 Tetrachloroethene ND 5.2 1.00 Toluene ND 5.2 1.00 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichlorobenzene ND 5.2 1.00 1,1,1-Trichloroethane 5.2 ND 1.00 1,1,2-Trichloroethane ND 5.2 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 52 1.00 Trichloroethene ND 5.2 1.00 ND 5.2 1,2,3-Trichloropropane 1.00 1,2,4-Trimethylbenzene ND 5.2 1.00 Trichlorofluoromethane ND 52 1.00 1,3,5-Trimethylbenzene ND 5.2 1.00 Vinyl Acetate ND 52 1.00 Vinyl Chloride ND 5.2 1.00 p/m-Xylene ND 5.2 1.00 o-Xylene ND 5.2 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.2 1.00 Tert-Butyl Alcohol (TBA) ND 52 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Surrogate

1,4-Bromofluorobenzene

Control Limits

60-132

Qualifiers

Rec. (%)

95





| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 39 of 48 |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 100 | 63-141 | |
| 1,2-Dichloroethane-d4 | 99 | 62-146 | |
| Toluene-d8 | 100 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 40 of 48

| SV-15-15 16-05-1326-14-A 05/17/16 Solid GC/MS GGC 05/18/16 05/18/16 160518L054 Parameter Result RL DE Qualifiers Acetone ND 130 1.00 1.00 Bromochorometane ND 5.1 1.00 1.00 Bromochoromethane ND 5.1 1.00 1.00 Bromoform ND 5.1 1.00 1.00 1.00 1.00 1.00 1.00 | Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| Actone ND 130 1.00 Benzene ND 5.1 1.00 Bromobenzene ND 5.1 1.00 Bromochloromethane ND 5.1 1.00 Bromochloromethane ND 5.1 1.00 Bromoform ND 5.1 1.00 Bromomethane ND 5.1 1.00 2-Butanone ND 5.1 1.00 -Butylbenzene ND 5.1 1.00 see-Butylbenzene ND 5.1 1.00 see-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Chlorothane ND 5.1 1.00 Chlorothane ND 5.1 1.00 Chlorothane ND 5.1 1.00 Chlorotoluene ND 5.1 1.00 Chlorotoluene ND 5.1 1.00 | SV-15-15 | 16-05-1326-14-A | | Solid | GC/MS GGG | 05/18/16 | 05/19/16 08:49 | 160518L054 |
| Benzene ND 5.1 1.00 Bromochorene ND 5.1 1.00 Bromochichormethane ND 5.1 1.00 Bromoclichicromethane ND 5.1 1.00 Bromodichichormethane ND 5.1 1.00 Bromomethane ND 5.1 1.00 2-Butanone ND 5.1 1.00 -Butylbenzene ND 5.1 1.00 sec-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Chloroethane ND 5.1 1.00 1-2-Dibromoethane ND 5.1 | <u>Parameter</u> | | Result | RL | = | <u>DF</u> | Qua | <u>llifiers</u> |
| Bromobenzene ND 5.1 1.00 Bromochloromethane ND 5.1 1.00 Bromochloromethane ND 5.1 1.00 Bromochloromethane ND 5.1 1.00 Bromomethane ND 26 1.00 2-Butanone ND 5.1 1.00 n-Butylbenzene ND 5.1 1.00 sec-Butylbenzene ND 5.1 1.00 ser-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chlorothane ND 5.1 1.00 | Acetone | | ND | 13 | 0 | 1.00 | | |
| Bromochloromethane ND 5.1 1.00 Bromofichloromethane ND 5.1 1.00 Bromoferm ND 5.1 1.00 Bromomethane ND 26 1.00 2-Butanone ND 5.1 1.00 n-Butylbenzene ND 5.1 1.00 ser-Butylbenzene ND 5.1 1.00 carbon Disulfide ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chlorofothane ND 5.1 1.00 L'Chlorofothare ND 5.1 1.00 L'2-Dibromo-3-Chloropropane ND 5.1 | Benzene | | ND | 5.1 | 1 | 1.00 | | |
| Bromodichloromethane ND 5.1 1.00 Bromoform ND 5.1 1.00 Bromomethane ND 26 1.00 2-Butanone ND 51 1.00 n-Butylbenzene ND 5.1 1.00 sec-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Chlorobrace ND 5.1 1.00 Chlorobrace ND 5.1 1.00 Chloroform ND 5.1 1.00 Chloroformethane ND 5.1 1.00 Chloroformethane ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 < | Bromobenzene | | ND | 5.1 | 1 | 1.00 | | |
| Bromoform ND 5.1 1.00 Brommethane ND 26 1.00 2-Butanone ND 51 1.00 n-Butylbenzene ND 5.1 1.00 sec-Butylbenzene ND 5.1 1.00 tert-Butylbenzene ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chlorochtane ND 5.1 1.00 Chlorochtane ND 5.1 1.00 2-Chlorotoluene ND 26 1.00 4-Chlorotoluene ND 5.1 1.00 1-2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,2-Dichlorobenzene ND <td< td=""><td>Bromochloromethane</td><td></td><td>ND</td><td>5.1</td><td>1</td><td>1.00</td><td></td><td></td></td<> | Bromochloromethane | | ND | 5.1 | 1 | 1.00 | | |
| Bromomethane ND 26 1.00 2-Butanone ND 51 1.00 n-Butylbenzene ND 5.1 1.00 sec-Butylbenzene ND 5.1 1.00 tert-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Chloroethane ND 5.1 1.00 Chloroethane ND 5.1 1.00 Chloroethane ND 5.1 1.00 Chloroethane ND 5.1 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 1-2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND <td< td=""><td>Bromodichloromethane</td><td></td><td>ND</td><td>5.1</td><td>1</td><td>1.00</td><td></td><td></td></td<> | Bromodichloromethane | | ND | 5.1 | 1 | 1.00 | | |
| 2-Butanone ND 51 1.00 n-Butylbenzene ND 5.1 1.00 sec-Butylbenzene ND 5.1 1.00 tert-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chlorotehane ND 5.1 1.00 Chlorotehane ND 5.1 1.00 Chlorotehane ND 5.1 1.00 Chloroteluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 1/2-Dibromoethane ND 5.1 1.00 1/2-Dibromoethane ND 5.1 1.00 1/2-Dichlorobenzene ND 5.1 1.00 1/3-Dichlorobenzene ND 5.1 1.00 1/2-Dichloroethane ND 5.1 | Bromoform | | ND | 5.1 | İ | 1.00 | | |
| n-Butylbenzene ND 5.1 1.00 sec-Butylbenzene ND 5.1 1.00 tert-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 5.1 1.00 Carbon Tetrachloride ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chloroethane ND 5.1 1.00 Chloroform ND 5.1 1.00 Chlorotolune ND 5.1 1.00 4-Chlorotolune ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND | Bromomethane | | ND | 26 | | 1.00 | | |
| sec-Butylbenzene ND 5.1 1.00 tert-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 51 1.00 Carbon Tetrachloride ND 5.1 1.00 Chloroetane ND 5.1 1.00 Chloroethane ND 5.1 1.00 Chloroform ND 5.1 1.00 Chlorotolune ND 5.1 1.00 4-Chlorotolune ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 Dichlorothane ND < | 2-Butanone | | ND | 51 | | 1.00 | | |
| tert-Butylbenzene ND 5.1 1.00 Carbon Disulfide ND 51 1.00 Carbon Tetrachloride ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chloroethane ND 5.1 1.00 Chloroform ND 5.1 1.00 Chlorothane ND 5.1 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 Dibromoethane ND 5.1 1.00 1,2-Dibromoethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 | n-Butylbenzene | | ND | 5.1 | 1 | 1.00 | | |
| Carbon Disulfide ND 51 1.00 Carbon Tetrachloride ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chlorobethane ND 5.1 1.00 Chloroform ND 5.1 1.00 Chloromethane ND 26 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorothuene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorothuene ND 5.1 1.00 1/2-Dibrome-3-Chloropropane ND 5.1 1.00 1,2-Dibrome-3-Chloropropane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1 | sec-Butylbenzene | | ND | 5.1 | 1 | 1.00 | | |
| Carbon Tetrachloride ND 5.1 1.00 Chlorobenzene ND 5.1 1.00 Chlorotethane ND 5.1 1.00 Chloroform ND 5.1 1.00 Chlorotoluene ND 26 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 Dibromochloromethane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dibromoethane ND 5.1 1.00 1,2-Dibromomethane ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,4-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane < | tert-Butylbenzene | | ND | 5.1 | 1 | 1.00 | | |
| Chlorobenzene ND 5.1 1.00 Chloroethane ND 5.1 1.00 Chloroform ND 5.1 1.00 Chloromethane ND 26 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 Dibromochloromethane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dibromoethane ND 5.1 1.00 1,2-Dibromoethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,4-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,2-Dichloroethene ND <td>Carbon Disulfide</td> <td></td> <td>ND</td> <td>51</td> <td></td> <td>1.00</td> <td></td> <td></td> | Carbon Disulfide | | ND | 51 | | 1.00 | | |
| Chloroethane ND 5.1 1.00 Chloroform ND 5.1 1.00 Chloromethane ND 26 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 Dibromochloromethane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 10 1.00 1,2-Dibromoethane ND 5.1 1.00 1,2-Dibromoethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorothane ND 5.1 1.00 1,1-Dichlorothane ND 5.1 1.00 1,1-Dichlorothane ND 5.1 1.00 1,1-Dichlorothene ND 5.1 1.00 1,1-Dichlorothene ND 5.1 1.00 1,1-Dichlorothene ND 5.1 1.00 1,2-Dichloroptopane ND | Carbon Tetrachloride | | ND | 5.1 | 1 | 1.00 | | |
| Chloroform ND 5.1 1.00 Chloromethane ND 26 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 Dibromochloromethane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 5.1 1.00 1,2-Dibromoethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,4-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1-1,2-Dichloroethene ND 5.1 1.00 1-1,2-Dichloropropane ND 5.1 1.00 1,2-Dichloropropane <td>Chlorobenzene</td> <td></td> <td>ND</td> <td>5.1</td> <td>1</td> <td>1.00</td> <td></td> <td></td> | Chlorobenzene | | ND | 5.1 | 1 | 1.00 | | |
| Chloromethane ND 26 1.00 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 Dibromochloromethane ND 5.1 1.00 1,2-Dibromochane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,1-Dichlorobethane ND 5.1 1.00 1,2-Dichlorobethane ND 5.1 1.00 1,1-Dichlorobethene ND 5.1 1.00 t-1,2-Dichlorobethene ND 5.1 1.00 t-1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropa | Chloroethane | | ND | 5.1 | 1 | 1.00 | | |
| 2-Chlorotoluene ND 5.1 1.00 4-Chlorotoluene ND 5.1 1.00 Dibromochloromethane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 1.0 1.00 1,2-Dibromoethane ND 5.1 1.00 Dibromomethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1-1,2-Dichloroptoethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane | Chloroform | | ND | 5.1 | 1 | 1.00 | | |
| 4-Chlorotoluene ND 5.1 1.00 Dibromochloromethane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 10 1.00 1,2-Dibromoethane ND 5.1 1.00 Dibromomethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | Chloromethane | | ND | 26 | | 1.00 | | |
| Dibromochloromethane ND 5.1 1.00 1,2-Dibromo-3-Chloropropane ND 10 1.00 1,2-Dibromoethane ND 5.1 1.00 Dibromomethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 -1,2-Dichloroethene ND 5.1 1.00 -1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 2-Chlorotoluene | | ND | 5.1 | 1 | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane ND 10 1.00 1,2-Dibromoethane ND 5.1 1.00 Dibromomethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 t-2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 4-Chlorotoluene | | ND | 5.1 | 1 | 1.00 | | |
| 1,2-Dibromoethane ND 5.1 1.00 Dibromomethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | Dibromochloromethane | | ND | 5.1 | 1 | 1.00 | | |
| 1,2-Dibromoethane ND 5.1 1.00 Dibromomethane ND 5.1 1.00 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | | | ND | | | 1.00 | | |
| 1,2-Dichlorobenzene ND 5.1 1.00 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | Dibromomethane | | ND | 5.1 | 1 | 1.00 | | |
| 1,3-Dichlorobenzene ND 5.1 1.00 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 1,2-Dichlorobenzene | | ND | 5.1 | 1 | 1.00 | | |
| 1,4-Dichlorobenzene ND 5.1 1.00 Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 1,3-Dichlorobenzene | | | | | 1.00 | | |
| Dichlorodifluoromethane ND 5.1 1.00 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 1,4-Dichlorobenzene | | ND | 5.1 | 1 | 1.00 | | |
| 1,1-Dichloroethane ND 5.1 1.00 1,2-Dichloroethane ND 5.1 1.00 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | Dichlorodifluoromethane | | ND | | | 1.00 | | |
| 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 1,1-Dichloroethane | | | | | 1.00 | | |
| 1,1-Dichloroethene ND 5.1 1.00 c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 1,2-Dichloroethane | | ND | 5.1 | 1 | 1.00 | | |
| c-1,2-Dichloroethene ND 5.1 1.00 t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | 1,1-Dichloroethene | | | | | 1.00 | | |
| t-1,2-Dichloroethene ND 5.1 1.00 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | · | | | | | | | |
| 1,2-Dichloropropane ND 5.1 1.00 1,3-Dichloropropane ND 5.1 1.00 | | | | | | | | |
| 1,3-Dichloropropane ND 5.1 1.00 | · | | | | | | | |
| | | | | | | | | |
| | 2,2-Dichloropropane | | ND | | | 1.00 | | |



 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/kg

 Project: 185803664
 Page 41 of 48

| Parameter Result RL DE Qualifiers 1.1-Dichloropropene ND 5.1 1.00 -1,3-Dichloropropene ND 5.1 1.00 £1,3-Dichloropropene ND 5.1 1.00 Ethylbenzene ND 5.1 1.00 Ethylbenzene ND 5.1 1.00 Sepropylbenzene ND 5.1 1.00 p-Issopropylloulene ND 5.1 1.00 Methylene Chloride ND 5.1 1.00 4-Methyl-2-Pentanone ND 5.1 1.00 Methylene Chloride ND 5.1 1.00 4-Methyl-2-Pentanone ND 5.1 1.00 Naphthalene ND 5.1 1.00 NP 5.1 1.00 1.00 1.1,2-Tetrachloroethane ND 5.1 1.00 1.1,2-Tetrachloroethane ND 5.1 1.00 1.2,3-Trichlorobenzene ND 5.1 1.00 1.1,1-Tr | ject: 185803664 | | | | Page 41 of 48 |
|--|-----------------------------------|----------|----------------|-------------------|-------------------|
| 1,1-Dichloropropene | ameter | Result | <u>RL</u> | <u>DF</u> | <u>Qualifiers</u> |
| Chilosopropene ND S.1 1.00 | | | | | |
| Ethylbenzene ND 5.1 1.00 2-Hexanone ND 51 1.00 Isopropylbenzene ND 5.1 1.00 Isopropylbenzene ND 5.1 1.00 Methylene Chloride ND 5.1 1.00 Methylene Chloride ND 51 1.00 Methylene Chloride ND 51 1.00 Naphthalene ND 51 1.00 Naphthalene ND 51 1.00 Naphthalene ND 51 1.00 Naphthalene ND 51 1.00 Isopropylbenzene ND 5.1 1.00 Isopropylbenzene N | 3-Dichloropropene | ND | 5.1 | 1.00 | |
| 2-Hexanone | 3-Dichloropropene | ND | 5.1 | 1.00 | |
| Isopropylbenzene | /lbenzene | ND | 5.1 | 1.00 | |
| P-Isopropyltoluene | exanone | ND | 51 | 1.00 | |
| Methylene Chloride ND 51 1.00 4-Methyl-2-Pentanone ND 51 1.00 Naphthalene ND 51 1.00 n-Propylbenzene ND 5.1 1.00 Styrene ND 5.1 1.00 1,1,1,2-Tetrachloroethane ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 Tetrachloroethane ND 5.1 1.00 Toluene ND 5.1 1.00 1,2,3-Trichloroethane ND 5.1 1.00 1,2,3-Trichloroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 < | propylbenzene | ND | 5.1 | 1.00 | |
| A-Methyl-2-Pentanone ND 51 1.00 | opropyltoluene | ND | 5.1 | 1.00 | |
| Naphthalene ND 51 1.00 n-Propylbenzene ND 5.1 1.00 Styrene ND 5.1 1.00 1,1,1,2-Tetrachloroethane ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 Toluene ND 5.1 1.00 Toluene ND 5.1 1.00 1,2,3-Trichlorobenzene ND 1.0 1.00 1,2,4-Trichloroethane ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 Trichloroethane ND 5.1 1.00 Trichloropropane ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Acetate ND | hylene Chloride | ND | 51 | 1.00 | |
| N-Propylbenzene | ethyl-2-Pentanone | ND | 51 | 1.00 | |
| Styrene ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 1,1,2,2-Tetrachloroethane ND 5.1 1.00 Tetrachloroethane ND 5.1 1.00 Tetrachloroethane ND 5.1 1.00 Toluene ND 5.1 1.00 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichloroethane ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 5.1 1.00 1,2,3-Trichloro-1,2,2-Trifluoroethane ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,3-Trimethylbenzene ND 5.1 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.0 | hthalene | ND | 51 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ropylbenzene | ND | 5.1 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | rene | ND | 5.1 | 1.00 | |
| Tetrachloroethene ND 5.1 1.00 Toluene ND 5.1 1.00 1.2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichloroethane ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 Wethyl-t-Butyl Ether (MT | 1,2-Tetrachloroethane | ND | 5.1 | 1.00 | |
| Toluene ND 5.1 1.00 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichloroethane ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 5.1 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 yimyl Acetate ND 5.1 1.00 vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND <td>2,2-Tetrachloroethane</td> <td>ND</td> <td>5.1</td> <td>1.00</td> <td></td> | 2,2-Tetrachloroethane | ND | 5.1 | 1.00 | |
| 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichlorobenzene ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropopane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 ymx Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 5.1 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl | achloroethene | ND | 5.1 | 1.00 | |
| 1,2,4-Trichlorobenzene ND 5.1 1.00 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 Trichlorofluoromethane ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 Testablyl Alcohol (TBA) ND | uene | ND | 5.1 | 1.00 | |
| 1,1,1-Trichloroethane ND 5.1 1.00 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Ethanol ND 260 1.00 Surrogate </td <td>3-Trichlorobenzene</td> <td>ND</td> <td>10</td> <td>1.00</td> <td></td> | 3-Trichlorobenzene | ND | 10 | 1.00 | |
| 1,1,2-Trichloroethane ND 5.1 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 <td>4-Trichlorobenzene</td> <td>ND</td> <td>5.1</td> <td>1.00</td> <td></td> | 4-Trichlorobenzene | ND | 5.1 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Triffluoroethane ND 51 1.00 Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 5.1 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | 1-Trichloroethane | ND | 5.1 | 1.00 | |
| Trichloroethene ND 5.1 1.00 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 5.1 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 5.1 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | 2-Trichloroethane | ND | 5.1 | 1.00 | |
| 1,2,3-Trichloropropane ND 5.1 1.00 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | 2-Trichloro-1,2,2-Trifluoroethane | ND | 51 | 1.00 | |
| 1,2,4-Trimethylbenzene ND 5.1 1.00 Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Methyl-t-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | hloroethene | ND | 5.1 | 1.00 | |
| Trichlorofluoromethane ND 51 1.00 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | 3-Trichloropropane | ND | 5.1 | 1.00 | |
| 1,3,5-Trimethylbenzene ND 5.1 1.00 Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | 4-Trimethylbenzene | ND | 5.1 | 1.00 | |
| Vinyl Acetate ND 51 1.00 Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | hlorofluoromethane | ND | 51 | 1.00 | |
| Vinyl Chloride ND 5.1 1.00 p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | 5-Trimethylbenzene | ND | 5.1 | 1.00 | |
| p/m-Xylene ND 5.1 1.00 o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 | /I Acetate | ND | 51 | 1.00 | |
| o-Xylene ND 5.1 1.00 Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 Surrogate Rec. (%) Control Limits Qualifiers | /l Chloride | ND | 5.1 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) ND 5.1 1.00 Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 Surrogate Rec. (%) Control Limits Qualifiers | -Xylene | ND | 5.1 | 1.00 | |
| Tert-Butyl Alcohol (TBA) ND 51 1.00 Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 Surrogate Rec. (%) Control Limits Qualifiers | ylene | ND | 5.1 | 1.00 | |
| Diisopropyl Ether (DIPE) ND 10 1.00 Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 Surrogate Rec. (%) Control Limits Qualifiers | hyl-t-Butyl Ether (MTBE) | ND | 5.1 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) ND 10 1.00 Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 Surrogate Rec. (%) Control Limits Qualifiers | -Butyl Alcohol (TBA) | ND | 51 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) ND 10 1.00 Ethanol ND 260 1.00 Surrogate Rec. (%) Control Limits Qualifiers | opropyl Ether (DIPE) | ND | 10 | 1.00 | |
| Ethanol ND 260 1.00 Surrogate Rec. (%) Control Limits Qualifiers | /I-t-Butyl Ether (ETBE) | ND | 10 | 1.00 | |
| Surrogate Rec. (%) Control Limits Qualifiers | -Amyl-Methyl Ether (TAME) | ND | 10 | 1.00 | |
| | anol | ND | 260 | 1.00 | |
| | rogate | Rec. (%) | Control Limits | <u>Qualifiers</u> | |
| 1,4-Bromofluorobenzene 98 60-132 | Bromofluorobenzene | 98 | 60-132 | | |



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 42 of 48 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 101 | 63-141 | |
| 1,2-Dichloroethane-d4 | 103 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 43 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-----------------|
| Method Blank | 099-12-796-11159 | N/A | Solid | GC/MS GGG | 05/18/16 | 05/18/16 17:56 | 160518L025 |
| Parameter | | Result | RL | • | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 12 | 0 | 1.00 | | |
| Benzene | | ND | 5.0 |) | 1.00 | | |
| Bromobenzene | | ND | 5.0 |) | 1.00 | | |
| Bromochloromethane | | ND | 5.0 |) | 1.00 | | |
| Bromodichloromethane | | ND | 5.0 |) | 1.00 | | |
| Bromoform | | ND | 5.0 |) | 1.00 | | |
| Bromomethane | | ND | 25 | | 1.00 | | |
| 2-Butanone | | ND | 50 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.0 |) | 1.00 | | |
| sec-Butylbenzene | | ND | 5.0 |) | 1.00 | | |
| tert-Butylbenzene | | ND | 5.0 |) | 1.00 | | |
| Carbon Disulfide | | ND | 50 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.0 |) | 1.00 | | |
| Chlorobenzene | | ND | 5.0 |) | 1.00 | | |
| Chloroethane | | ND | 5.0 |) | 1.00 | | |
| Chloroform | | ND | 5.0 |) | 1.00 | | |
| Chloromethane | | ND | 25 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.0 |) | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.0 |) | 1.00 | | |
| Dibromochloromethane | | ND | 5.0 |) | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.0 |) | 1.00 | | |
| Dibromomethane | | ND | 5.0 |) | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.0 |) | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.0 |) | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.0 |) | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.0 |) | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.0 |) | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.0 |) | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.0 |) | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.0 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.0 | | 1.00 | | |
| 2,2-Dichloropropane | | | | | | | |



 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/kg

 Project: 185803664
 Page 44 of 48

| 110,000.10000004 | | | | 1 agc ++ 01 +0 |
|---------------------------------------|---------------|----------------|-------------------|-------------------|
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Qualifiers</u> |
| 1,1-Dichloropropene | ND | 5.0 | 1.00 | |
| c-1,3-Dichloropropene | ND | 5.0 | 1.00 | |
| t-1,3-Dichloropropene | ND | 5.0 | 1.00 | |
| Ethylbenzene | ND | 5.0 | 1.00 | |
| 2-Hexanone | ND | 50 | 1.00 | |
| Isopropylbenzene | ND | 5.0 | 1.00 | |
| p-Isopropyltoluene | ND | 5.0 | 1.00 | |
| Methylene Chloride | ND | 50 | 1.00 | |
| 4-Methyl-2-Pentanone | ND | 50 | 1.00 | |
| Naphthalene | ND | 50 | 1.00 | |
| n-Propylbenzene | ND | 5.0 | 1.00 | |
| Styrene | ND | 5.0 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | 1.00 | |
| Tetrachloroethene | ND | 5.0 | 1.00 | |
| Toluene | ND | 5.0 | 1.00 | |
| 1,2,3-Trichlorobenzene | ND | 10 | 1.00 | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 1.00 | |
| 1,1,1-Trichloroethane | ND | 5.0 | 1.00 | |
| 1,1,2-Trichloroethane | ND | 5.0 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 50 | 1.00 | |
| Trichloroethene | ND | 5.0 | 1.00 | |
| 1,2,3-Trichloropropane | ND | 5.0 | 1.00 | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | 1.00 | |
| Trichlorofluoromethane | ND | 50 | 1.00 | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | 1.00 | |
| Vinyl Acetate | ND | 50 | 1.00 | |
| Vinyl Chloride | ND | 5.0 | 1.00 | |
| p/m-Xylene | ND | 5.0 | 1.00 | |
| o-Xylene | ND | 5.0 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 5.0 | 1.00 | |
| Tert-Butyl Alcohol (TBA) | ND | 50 | 1.00 | |
| Diisopropyl Ether (DIPE) | ND | 10 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 10 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 10 | 1.00 | |
| Ethanol | ND | 250 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> | |
| 1,4-Bromofluorobenzene | 98 | 60-132 | | |





| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 45 of 48 |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 102 | 63-141 | |
| 1,2-Dichloroethane-d4 | 101 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



StantecDate Received:05/18/1625864-F Business Center DriveWork Order:16-05-1326Redlands, CA 92374-4515Preparation:EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/kg

Project: 185803664 Page 46 of 48

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|--------|------------|------------------|-----------------------|-------------|
| Method Blank | 099-12-796-11164 | N/A | Solid | GC/MS GGG | 05/18/16 | 05/19/16 05:43 | 160518L054 |
| Parameter | | Result | RL | | <u>DF</u> | Qua | lifiers |
| Acetone | | ND | 120 |) | 1.00 | | |
| Benzene | | ND | 5.0 | | 1.00 | | |
| Bromobenzene | | ND | 5.0 | | 1.00 | | |
| Bromochloromethane | | ND | 5.0 | | 1.00 | | |
| Bromodichloromethane | | ND | 5.0 | | 1.00 | | |
| Bromoform | | ND | 5.0 | | 1.00 | | |
| Bromomethane | | ND | 25 | | 1.00 | | |
| 2-Butanone | | ND | 50 | | 1.00 | | |
| n-Butylbenzene | | ND | 5.0 | | 1.00 | | |
| sec-Butylbenzene | | ND | 5.0 | | 1.00 | | |
| tert-Butylbenzene | | ND | 5.0 | | 1.00 | | |
| Carbon Disulfide | | ND | 50 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 5.0 | | 1.00 | | |
| Chlorobenzene | | ND | 5.0 | | 1.00 | | |
| Chloroethane | | ND | 5.0 | | 1.00 | | |
| Chloroform | | ND | 5.0 | | 1.00 | | |
| Chloromethane | | ND | 25 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 5.0 | | 1.00 | | |
| 4-Chlorotoluene | | ND | 5.0 | | 1.00 | | |
| Dibromochloromethane | | ND | 5.0 | | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 10 | | 1.00 | | |
| 1,2-Dibromoethane | | ND | 5.0 | | 1.00 | | |
| Dibromomethane | | ND | 5.0 | | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 5.0 | | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 5.0 | | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 5.0 | | 1.00 | | |
| Dichlorodifluoromethane | | ND | 5.0 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 5.0 | | 1.00 | | |
| 1,2-Dichloroethane | | ND | 5.0 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 5.0 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 5.0 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 5.0 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 5.0 | | 1.00 | | |



1,3,5-Trimethylbenzene

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethyl-t-Butyl Ether (ETBE)

1,4-Bromofluorobenzene

Tert-Amyl-Methyl Ether (TAME)

Vinyl Acetate

Vinyl Chloride

p/m-Xylene

o-Xylene

Ethanol

Surrogate

Analytical Report

Stantec Date Received: 05/18/16 Work Order: 16-05-1326 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/kg Project: 185803664 Page 47 of 48 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 5.0 1.00 1,1-Dichloropropene c-1,3-Dichloropropene ND 5.0 1.00 t-1,3-Dichloropropene ND 5.0 1.00 Ethylbenzene ND 5.0 1.00 2-Hexanone ND 50 1.00 Isopropylbenzene ND 5.0 1.00 p-Isopropyltoluene ND 5.0 1.00 Methylene Chloride ND 50 1.00 4-Methyl-2-Pentanone ND 50 1.00 Naphthalene ND 50 1.00 ND n-Propylbenzene 5.0 1.00 Styrene ND 5.0 1.00 1,1,1,2-Tetrachloroethane ND 5.0 1.00 1,1,2,2-Tetrachloroethane ND 5.0 1.00 Tetrachloroethene ND 5.0 1.00 Toluene ND 5.0 1.00 1,2,3-Trichlorobenzene ND 10 1.00 1,2,4-Trichlorobenzene ND 5.0 1.00 1,1,1-Trichloroethane ND 5.0 1.00 1,1,2-Trichloroethane ND 5.0 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 50 1.00 Trichloroethene ND 5.0 1.00 1,2,3-Trichloropropane ND 5.0 1.00 1,2,4-Trimethylbenzene ND 5.0 1.00 Trichlorofluoromethane ND 50 1.00

ND

96

Rec. (%)

5.0

50

5.0

5.0

5.0

5.0

50

10

10

10

250

60-132

Control Limits

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

Qualifiers



| Stantec | Date Received: | 05/18/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-05-1326 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/kg |
| Project: 185803664 | | Page 48 of 48 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 100 | 63-141 | |
| 1,2-Dichloroethane-d4 | 101 | 62-146 | |
| Toluene-d8 | 101 | 80-120 | |



Quality Control - Spike/Spike Duplicate

Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C
Method: EPA 8260B

Project: 185803664 Page 1 of 2

| Quality Control Sample ID | Туре | | Matrix | Ins | trument | Date Prepared | Date Ana | lyzed | MS/MSD Bat | ch Number |
|-------------------------------|-----------------|------------------------------|-------------|--------------------|--------------|---------------|----------|-------|------------|-------------------|
| 16-05-1330-1 | Sample | | Solid | GC | /MS GGG | 05/18/16 | 05/18/16 | 18:39 | 160518S011 | |
| 16-05-1330-1 | Matrix Spike | | Solid | GC | /MS GGG | 05/18/16 | 05/18/16 | 19:06 | 160518S011 | |
| 16-05-1330-1 | Matrix Spike | Duplicate | Solid | GC | /MS GGG | 05/18/16 | 05/18/16 | 19:33 | 160518S011 | |
| <u>Parameter</u> | Sample Conc. | <u>Spike</u> <u>Added</u> | MS Conc. | <u>MS</u> %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | <u>Qualifiers</u> |
| Benzene | ND | 50.00 | 37.09 | 74 | 35.87 | 72 | 61-127 | 3 | 0-20 | |
| Carbon Tetrachloride | ND | 50.00 | 37.26 | 75 | 35.74 | 71 | 51-135 | 4 | 0-29 | |
| Chlorobenzene | ND | 50.00 | 37.52 | 75 | 36.53 | 73 | 57-123 | 3 | 0-20 | |
| 1,2-Dibromoethane | ND | 50.00 | 41.41 | 83 | 41.07 | 82 | 64-124 | 1 | 0-20 | |
| 1,2-Dichlorobenzene | ND | 50.00 | 38.62 | 77 | 36.93 | 74 | 35-131 | 4 | 0-25 | |
| 1,2-Dichloroethane | ND | 50.00 | 39.68 | 79 | 39.56 | 79 | 80-120 | 0 | 0-20 | 3 |
| 1,1-Dichloroethene | ND | 50.00 | 37.84 | 76 | 35.72 | 71 | 47-143 | 6 | 0-25 | |
| Ethylbenzene | ND | 50.00 | 37.12 | 74 | 35.85 | 72 | 57-129 | 3 | 0-22 | |
| Toluene | ND | 50.00 | 37.85 | 76 | 36.74 | 73 | 63-123 | 3 | 0-20 | |
| Trichloroethene | ND | 50.00 | 38.64 | 77 | 37.25 | 75 | 44-158 | 4 | 0-20 | |
| Vinyl Chloride | ND | 50.00 | 45.85 | 92 | 39.83 | 80 | 49-139 | 14 | 0-47 | |
| p/m-Xylene | ND | 100.0 | 74.61 | 75 | 72.29 | 72 | 70-130 | 3 | 0-30 | |
| o-Xylene | ND | 50.00 | 38.00 | 76 | 37.17 | 74 | 70-130 | 2 | 0-30 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 50.00 | 43.53 | 87 | 43.21 | 86 | 57-123 | 1 | 0-21 | |
| Tert-Butyl Alcohol (TBA) | ND | 250.0 | 212.0 | 85 | 222.1 | 89 | 30-168 | 5 | 0-34 | |
| Diisopropyl Ether (DIPE) | ND | 50.00 | 39.91 | 80 | 38.90 | 78 | 57-129 | 3 | 0-20 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 50.00 | 41.04 | 82 | 40.90 | 82 | 55-127 | 0 | 0-20 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 50.00 | 40.90 | 82 | 40.99 | 82 | 58-124 | 0 | 0-20 | |

79

395.5

79

17-167

1

0-47

ND

500.0

392.8

Ethanol



Quality Control - Spike/Spike Duplicate

Stantec Date Received: 05/18/16
25864-F Business Center Drive Work Order: 16-05-1326
Redlands, CA 92374-4515 Preparation: EPA 5030C
Method: EPA 8260B

Project: 185803664 Page 2 of 2

| Quality Control Sample ID | Туре | | Matrix | Ins | trument | Date Prepare | d Date Ana | lyzed | MS/MSD Bat | ch Number |
|-------------------------------|-----------------|------------------------------|-------------|-------------|--------------|--------------|-------------------------|-------|---------------------|------------|
| SV-11-5 | Sample | | Solid | GC | /MS GGG | 05/18/16 | 05/18/16 05/19/16 06:10 | | 160518S031 | |
| SV-11-5 | Matrix Spike | | Solid | GC | /MS GGG | 05/18/16 | 05/19/16 | 06:36 | 160518S031 | |
| SV-11-5 | Matrix Spike | Duplicate | Solid | GC | MS GGG | 05/18/16 | 05/19/16 | 07:03 | 160518 S 031 | |
| Parameter | Sample Conc. | <u>Spike</u> <u>Added</u> | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Benzene | ND | 50.00 | 41.32 | 83 | 44.04 | 88 | 61-127 | 6 | 0-20 | |
| Carbon Tetrachloride | ND | 50.00 | 43.80 | 88 | 45.50 | 91 | 51-135 | 4 | 0-29 | |
| Chlorobenzene | ND | 50.00 | 41.22 | 82 | 44.17 | 88 | 57-123 | 7 | 0-20 | |
| 1,2-Dibromoethane | ND | 50.00 | 41.43 | 83 | 45.45 | 91 | 64-124 | 9 | 0-20 | |
| 1,2-Dichlorobenzene | ND | 50.00 | 40.14 | 80 | 45.19 | 90 | 35-131 | 12 | 0-25 | |
| 1,2-Dichloroethane | ND | 50.00 | 41.44 | 83 | 44.58 | 89 | 80-120 | 7 | 0-20 | |
| 1,1-Dichloroethene | ND | 50.00 | 43.42 | 87 | 45.52 | 91 | 47-143 | 5 | 0-25 | |
| Ethylbenzene | ND | 50.00 | 42.71 | 85 | 45.28 | 91 | 57-129 | 6 | 0-22 | |
| Toluene | ND | 50.00 | 43.13 | 86 | 45.33 | 91 | 63-123 | 5 | 0-20 | |
| Trichloroethene | ND | 50.00 | 45.66 | 91 | 48.73 | 97 | 44-158 | 6 | 0-20 | |
| Vinyl Chloride | ND | 50.00 | 45.54 | 91 | 47.27 | 95 | 49-139 | 4 | 0-47 | |
| p/m-Xylene | ND | 100.0 | 84.88 | 85 | 90.11 | 90 | 70-130 | 6 | 0-30 | |
| o-Xylene | ND | 50.00 | 43.01 | 86 | 46.09 | 92 | 70-130 | 7 | 0-30 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 50.00 | 42.83 | 86 | 47.04 | 94 | 57-123 | 9 | 0-21 | |
| Tert-Butyl Alcohol (TBA) | ND | 250.0 | 271.0 | 108 | 289.5 | 116 | 30-168 | 7 | 0-34 | |
| Diisopropyl Ether (DIPE) | ND | 50.00 | 42.30 | 85 | 45.80 | 92 | 57-129 | 8 | 0-20 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 50.00 | 42.73 | 85 | 46.63 | 93 | 55-127 | 9 | 0-20 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 50.00 | 42.29 | 85 | 46.06 | 92 | 58-124 | 9 | 0-20 | |
| Ethanol | ND | 500.0 | 610.7 | 122 | 666.1 | 133 | 17-167 | 9 | 0-47 | |

05/18/16

16-05-1326 EPA 5030C



Project: 185803664

Quality Control - LCS

Stantec Date Received:

25864-F Business Center Drive Work Order:

Redlands, CA 92374-4515 Preparation:

Method: EPA 8260B Page 1 of 2

| Quality Control Sample ID | Туре | Matrix | Instrumen | t Date Prep | ared Date Ana | lyzed LCS Batch | Number |
|------------------------------|------|-------------|-----------------|-------------|---------------|-----------------|------------|
| 099-12-796-11159 | LCS | Solid | GC/MS G | GG 05/18/16 | 05/18/16 | 16:10 160518L02 | :5 |
| <u>Parameter</u> | | Spike Added | Conc. Recovered | LCS %Rec. | %Rec. CL | ME CL | Qualifiers |
| Benzene | | 50.00 | 49.09 | 98 | 78-120 | 71-127 | |
| Carbon Tetrachloride | | 50.00 | 51.47 | 103 | 49-139 | 34-154 | |
| Chlorobenzene | | 50.00 | 50.02 | 100 | 79-120 | 72-127 | |
| ,2-Dibromoethane | | 50.00 | 50.82 | 102 | 80-120 | 73-127 | |
| ,2-Dichlorobenzene | | 50.00 | 51.61 | 103 | 75-120 | 68-128 | |
| ,2-Dichloroethane | | 50.00 | 49.52 | 99 | 80-120 | 73-127 | |
| ,1-Dichloroethene | | 50.00 | 51.26 | 103 | 74-122 | 66-130 | |
| thylbenzene | | 50.00 | 51.01 | 102 | 76-120 | 69-127 | |
| oluene | | 50.00 | 51.13 | 102 | 77-120 | 70-127 | |
| richloroethene | | 50.00 | 53.08 | 106 | 80-120 | 73-127 | |
| 'inyl Chloride | | 50.00 | 49.71 | 99 | 68-122 | 59-131 | |
| /m-Xylene | | 100.0 | 102.7 | 103 | 75-125 | 67-133 | |
| -Xylene | | 50.00 | 52.33 | 105 | 75-125 | 67-133 | |
| Methyl-t-Butyl Ether (MTBE) | | 50.00 | 52.86 | 106 | 77-120 | 70-127 | |
| ert-Butyl Alcohol (TBA) | | 250.0 | 234.1 | 94 | 68-122 | 59-131 | |
| iisopropyl Ether (DIPE) | | 50.00 | 50.68 | 101 | 78-120 | 71-127 | |
| thyl-t-Butyl Ether (ETBE) | | 50.00 | 52.25 | 105 | 78-120 | 71-127 | |
| ert-Amyl-Methyl Ether (TAME) | | 50.00 | 51.33 | 103 | 75-120 | 68-128 | |
| thanol | | 500.0 | 432.7 | 87 | 56-140 | 42-154 | |

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass



Quality Control - LCS

Stantec 25864-F Business Center Drive Redlands, CA 92374-4515 Date Received: Work Order: Preparation: Method:

16-05-1326 EPA 5030C EPA 8260B

05/18/16

Project: 185803664 Page 2 of 2

| Quality Control Sample ID | Туре | Matrix | Instrument | Date Prepa | red Date Analyze | d LCS Batch Number | er |
|-------------------------------|----------|------------|-----------------|------------|------------------|--------------------|----------|
| 099-12-796-11164 | LCS | Solid | GC/MS GC | G 05/18/16 | 05/19/16 04:5 | 0 160518L054 | |
| Parameter | <u>s</u> | pike Added | Conc. Recovered | LCS %Rec. | %Rec. CL | ME CL Qua | alifiers |
| Benzene | 50 | 0.00 | 48.40 | 97 | 78-120 | 71-127 | |
| Carbon Tetrachloride | 50 | 0.00 | 49.74 | 99 | 49-139 | 34-154 | |
| Chlorobenzene | 50 | 0.00 | 49.34 | 99 | 79-120 | 72-127 | |
| 1,2-Dibromoethane | 50 | 0.00 | 50.56 | 101 | 80-120 | 73-127 | |
| 1,2-Dichlorobenzene | 50 | 0.00 | 50.39 | 101 | 75-120 | 68-128 | |
| 1,2-Dichloroethane | 50 | 0.00 | 50.17 | 100 | 80-120 | 73-127 | |
| 1,1-Dichloroethene | 50 | 0.00 | 49.37 | 99 | 74-122 | 66-130 | |
| Ethylbenzene | 50 | 0.00 | 49.64 | 99 | 76-120 | 69-127 | |
| Toluene | 50 | 0.00 | 50.11 | 100 | 77-120 | 70-127 | |
| Trichloroethene | 50 | 0.00 | 50.90 | 102 | 80-120 | 73-127 | |
| Vinyl Chloride | 50 | 0.00 | 47.90 | 96 | 68-122 | 59-131 | |
| p/m-Xylene | 10 | 00.0 | 99.20 | 99 | 75-125 | 67-133 | |
| o-Xylene | 50 | 0.00 | 50.86 | 102 | 75-125 | 67-133 | |
| Methyl-t-Butyl Ether (MTBE) | 50 | 0.00 | 52.29 | 105 | 77-120 | 70-127 | |
| Tert-Butyl Alcohol (TBA) | 25 | 50.0 | 250.2 | 100 | 68-122 | 59-131 | |
| Diisopropyl Ether (DIPE) | 50 | 0.00 | 50.99 | 102 | 78-120 | 71-127 | |
| Ethyl-t-Butyl Ether (ETBE) | 50 | 0.00 | 51.73 | 103 | 78-120 | 71-127 | |
| Tert-Amyl-Methyl Ether (TAME) | 50 | 0.00 | 51.38 | 103 | 75-120 | 68-128 | |
| Ethanol | 50 | 00.0 | 490.8 | 98 | 56-140 | 42-154 | |

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass



Glossary of Terms and Qualifiers

Work Order: 16-05-1326 Page 1 of 1

| Qualifiers | <u>Definition</u> |
|------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| В | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| CI | See case narrative. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |

- Χ % Recovery and/or RPD out-of-range. Ζ
 - Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

CHAIN OF CUSTODY FORM

Stantec

25864-F-Business Center Dr., Redlands, CA 92374 (909)335-6116, Fax (909) 335-6120

16-05-1326

Vote: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



WORK ORDER NUMBER: 16-05- 290 596

Calscience

SAMPLE RECEIPT CHECKLIST

| COOLER | / OF | |
|--------|------|--|
| | 101 | |

| | | SAMPLE RECEIPT CHECKLIST | COOLEROI |
|---------|---------|--------------------------|---------------------|
| CLIENT: | Stantec | | DATE: 05 / 18 / 201 |
| | | | |

| TEMPERATURE: (Criteria: 0.0°C − 6.0°C, not frozen except sediment/tissue) Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): | | | | | | | |
|--|--|--------------|----------|-------------|--|--|--|
| ☐ Sample(s) received at ambient temperature; placed on ice for transp | | | | 600 | | | |
| Ambient Temperature: ☐ Air ☐ Filter | | Checke | ed by: | 659 | | | |
| CUSTODY SEAL: | | | | 1.50 | | | |
| | Not Present □ N/A | | ed by: _ | 112 | | | |
| Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☐ | Z Not Present □ N/A | Checke | ed by: _ | 6)9 | | | |
| SAMPLE CONDITION: | | Yes | No | N/A | | | |
| Chain-of-Custody (COC) document(s) received with samples | | 🏻 | | | | | |
| COC document(s) received complete | | 📈 | | | | | |
| ☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of conta | | | | | | | |
| ☐ No analysis requested ☐ Not relinquished ☐ No relinquished | | ne | | | | | |
| Sampler's name indicated on COC | | | | | | | |
| Sample container label(s) consistent with COC | | | | | | | |
| Sample container(s) intact and in good condition | | | | | | | |
| Proper containers for analyses requested | | 🗹 | | | | | |
| Sufficient volume/mass for analyses requested | | | | | | | |
| Samples received within holding time | | | | | | | |
| Aqueous samples for certain analyses received within 15-minute ho | | | | ر | | | |
| ☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved O: | | 🗖 | | £ (| | | |
| Proper preservation chemical(s) noted on COC and/or sample contain | | | | Ø | | | |
| Unpreserved aqueous sample(s) received for certain analyses | | | | | | | |
| ☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals | | | | , | | | |
| Container(s) for certain analysis free of headspace | | 🗖 | | Ø | | | |
| ☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved | | | | | | | |
| ☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydr | | | | , | | | |
| Tedlar™ bag(s) free of condensation | , | 🗆 | | Æ | | | |
| CONTAINER TYPE: | (Trip Blank Lot Num | | |) | | | |
| Aqueous: \Box VOA \Box VOAh \Box VOAna ₂ \Box 100PJ \Box 100PJna ₂ \Box 11 | | | | | | | |
| ☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 25 | | | | | | | |
| □ 500PB □ 1AGB □ 1AGBna₂ □ 1AGBs □ 1PB □ 1PBna □ □ | | | | | | | |
| Solid: ☐ 4ozCGJ Ø 8ozCGJ ☐ 16ozCGJ Ø Sleeve () ☐ EnC | ores [®] () ☐ TerraCore | s® () | | | | | |
| Air: □ Tedlar™ □ Canister □ Sorbent Tube □ PUF □ (| Other Matrix () | : 🛮 | □_ | | | | |
| 0 - Class 4 - 16 | or D - Diagtic and 7 - Ziploc/F | Rasaalahla F | Rad | à — | | | |
| Preservative: b = buffered, f = filtered, h = HCl, n = HNO ₃ , na = NaOH, na ₂ = | $Na_2S_2O_3$, p = H_3PO_4 , Labe | eled/Check | ed by: _ | 911 | | | |
| $\mathbf{s} = H_2SO_4$, $\mathbf{u} = \text{ultra-pure}$, $\mathbf{znna} = \text{Zn}(CH_3CO_2)_2 + \text{NaOH}$ | | Review | ed by: _ | 948 | | | |



Calscience

Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.



WORK ORDER NUMBER: 16-05-1326

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Stantec

Client Project Name: 185803664

Attention: Jim DeWoody

25864-F Business Center Drive Redlands, CA 92374-4515

Kothleen M. Burney Fox

Approved for release on 06/07/2016 by:

Carla Hollowell Project Manager



ResultLink ▶

Email your PM >

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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Client Project Name: 185803664 Work Order Number: 16-05-1326

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Work Order Narrative

Work Order: 16-05-1326 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/18/16. They were assigned to Work Order 16-05-1326.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Sample Summary

 Client:
 Stantec
 Work Order:
 16-05-1326

 25864-F Business Center Drive
 Project Name:
 185803664

Redlands, CA 92374-4515 PO Number:

Date/Time 05/18/16 15:40

Received:

Number of 14

Containers:

Attn: Jim DeWoody

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| SV-13-5 | 16-05-1326-5 | 05/17/16 10:33 | 1 | Solid |
| SV-13-15 | 16-05-1326-6 | 05/17/16 10:47 | 1 | Solid |



 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Units:
 mg/kg

Project: 185803664 Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|------------------------|--------|----------------|-------------------|-----------------------|-----------------|
| SV-13-5 | 16-05-1326-5-A | 05/17/16 10:33 | Solid | GC 45 | 05/31/16 | 06/01/16 01:34 | 160531B09 |
| <u>Parameter</u> | | Result | | <u>RL</u> | <u>DF</u> | Qua | <u>llifiers</u> |
| TPH as Motor Oil | | ND | : | 25 | 1.00 | | |
| Surrogate | | Rec. (%) | ! | Control Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 120 | (| 61-145 | | | |
| | | | | | | | |

| SV-13-15 | 16-05-1326-6-A | 05/17/16 10:47 | Solid | GC 45 | 05/31/16 | 06/01/16 01:51 | 160531B09 |
|------------------|----------------|-------------------|----------|----------------|-------------------|-------------------|-----------------|
| <u>Parameter</u> | | Result | <u> </u> | <u>RL</u> | <u>DF</u> | <u>Qu</u> | <u>alifiers</u> |
| TPH as Motor Oil | | ND | 2 | 25 | 1.00 | | |
| _ | | | | | | | |
| <u>Surrogate</u> | | Rec. (%) | <u>(</u> | Control Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 107 | 6 | 61-145 | | | |
| | | | | | | | |

| Method Blank | 099-15-420-1819 | N/A | Solid | GC 45 | 05/31/16 | 05/31/16 19:33 | 160531B09 |
|------------------|-----------------|----------|----------|---------------|-------------------|-------------------|-----------|
| <u>Parameter</u> | | Result | <u>R</u> | <u>L</u> | <u>DF</u> | Qu | alifiers |
| TPH as Motor Oil | | ND | 25 | 5 | 1.00 | | |
| Surrogate | | Rec. (%) | <u>C</u> | ontrol Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 97 | 6′ | 1-145 | | | |



 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Units:
 mg/kg

Project: 185803664 Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|------------------------|--------|----------------|------------------|-----------------------|-------------|
| SV-13-5 | 16-05-1326-5-A | 05/17/16 10:33 | Solid | GC 45 | 05/31/16 | 06/01/16 01:34 | 160531B08 |
| <u>Parameter</u> | | Result | | <u>RL</u> | <u>DF</u> | Qua | alifiers |
| TPH as Diesel | | ND | | 4.9 | 1.00 | | |
| Surrogate | | Rec. (%) | | Control Limits | Qualifiers | | |
| n-Octacosane | | 120 | | 61-145 | | | |
| SV-13-15 | 16-05-1326-6-A | 05/17/16 | Solid | GC 45 | 05/31/16 | 06/01/16 | 160531B08 |

| SV-13-15 | 16-05-1326-6-A | 05/17/16 10:47 | Solid | GC 45 | 05/31/16 | 06/01/16 01:51 | 160531B08 |
|------------------|----------------|-------------------|-------|----------------|-------------------|-------------------|-----------|
| <u>Parameter</u> | | Result | | <u>RL</u> | DF | Qu | alifiers |
| TPH as Diesel | | ND | | 5.0 | 1.00 | | |
| Surrogate | | Rec. (%) | | Control Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 107 | | 61-145 | | | |

| Method Blank | 099-15-422-2461 | N/A | Solid | GC 45 | 05/31/16 | 05/31/16 19:33 | 160531B08 |
|------------------|-----------------|----------|----------|---------------|-------------------|-------------------|-----------------|
| <u>Parameter</u> | | Result | <u>R</u> | <u>L</u> | <u>DF</u> | <u>Qu</u> | <u>alifiers</u> |
| TPH as Diesel | | ND | 5. | 0 | 1.00 | | |
| <u>Surrogate</u> | | Rec. (%) | <u>C</u> | ontrol Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 97 | 6′ | 1-145 | | | |



Quality Control - Spike/Spike Duplicate

 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

Project: 185803664 Page 1 of 2

| Quality Control Sample ID | Туре | | Matrix | Inst | rument | Date Prepared | Date Ana | lyzed | MS/MSD Ba | tch Number |
|---------------------------|-------------------|-----------------------|-------------|--------------------|--------------|---------------|----------|-------|-----------|------------|
| 16-05-1623-12 | Sample | | Solid | GC | 45 | 05/31/16 | 06/01/16 | 09:44 | 160531S09 | |
| 16-05-1623-12 | Matrix Spike | | Solid | GC | 45 | 05/31/16 | 05/31/16 | 20:56 | 160531S09 | |
| 16-05-1623-12 | Matrix Spike Du | uplicate | Solid | GC | 45 | 05/31/16 | 05/31/16 | 21:12 | 160531S09 | |
| Parameter | Sample S Conc. | <u>Spike</u> Added | MS Conc. | <u>MS</u> %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| TPH as Motor Oil | 3690 | 400.0 | 1231 | 0 | 1320 | 0 | 64-130 | 7 | 0-15 | 3 |



Quality Control - Spike/Spike Duplicate

 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

Project: 185803664 Page 2 of 2

| Quality Control Sample ID | Туре | Matrix | Instru | ument | Date Prepared | Date Analyz | zed | MS/MSD Bat | ch Number |
|---------------------------|-------------------------|------------|-------------|--------------|---------------|-------------|-----|------------|------------|
| 16-05-1623-12 | Sample | Solid | GC 4 | 5 | 05/31/16 | 06/01/16 09 | :44 | 160531S08 | |
| 16-05-1623-12 | Matrix Spike | Solid | GC 4 | 5 | 05/31/16 | 05/31/16 20 | :22 | 160531S08 | |
| 16-05-1623-12 | Matrix Spike Dupli | cate Solid | GC 4 | 5 | 05/31/16 | 05/31/16 20 | :39 | 160531S08 | |
| Parameter | Sample Spi Conc. Add | | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL F | RPD | RPD CL | Qualifiers |
| TPH as Diesel | 1273 400 | 0.0 1172 | 0 | 1030 | 0 | 64-130 1 | 3 | 0-15 | 3 |





Quality Control - LCS

 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

Project: 185803664 Page 1 of 2

| Quality Control Sample ID | Туре | Matrix | Instrument | Date Prepared | Date Analyzed | LCS Batch Number |
|---------------------------|------|-------------|---------------|---------------|----------------|------------------|
| 099-15-420-1819 | LCS | Solid | GC 45 | 05/31/16 | 05/31/16 20:05 | 160531B09 |
| Parameter | | Spike Added | Conc. Recover | ed LCS %Re | ec. %Rec | . CL Qualifiers |
| TPH as Motor Oil | | 400.0 | 395.8 | 99 | 75-12 | 3 |



Quality Control - LCS

 Stantec
 Date Received:
 05/18/16

 25864-F Business Center Drive
 Work Order:
 16-05-1326

 Redlands, CA 92374-4515
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

Project: 185803664 Page 2 of 2

| Quality Control Sample ID | Туре | Matrix | Instrument | Date Prepared | Date Analyzed | LCS Batch Number |
|---------------------------|------|-------------|----------------|---------------|----------------|------------------|
| 099-15-422-2461 | LCS | Solid | GC 45 | 05/31/16 | 05/31/16 19:49 | 160531B08 |
| Parameter | | Spike Added | Conc. Recovere | ed LCS %Re | ec. %Rec | . CL Qualifiers |
| TPH as Diesel | | 400.0 | 418.9 | 105 | 75-12 | 3 |



Glossary of Terms and Qualifiers

Work Order: 16-05-1326 Page 1 of 1

| Qualifiers | <u>Definition</u> |
|------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without furthe clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| В | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| CI | See case narrative. |
| Ε | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |

- X % Recovery and/or RPD out-of-range.
- Z Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

CHAIN OF CUSTODY FORM

Stantec

25864-F-Business Center Dr., Redlands, CA 92374 (909)335-6116, Fax (909) 335-6120

16-05-1326

Page-

| Client Name/Address: | | Project/PO Number: | ıber: | | Analysi | Analysis Required | |
|--|---------------|---|--------------------------------|-------|----------------|---------------------------|----------------------|
| Stantec 25864-F Business Center Drive Redlands, CA 92374 | | 185803604 | マ | 000 | | | |
| Project Manager: Jim Del Joed | 3 | Phone Number:909-335-6116 | 09-335-6116 | 28 | | | |
| Email Address Janues. Del boch Stanter .com | 2. Stantec.co | (a)C | | 8 | | | |
| Sampler: Ryan McDane | مراهر | Fax Number:909-335-61 | .335-6120 | 00 | | | |
| Sample Description | | # of Sampling Sampling Cont, Date Time | Sampling Preservatives Time | | | | Special Instructions |
| 5-11-75 | S Calass | 1 5-17-16 0913 | 0913 ICE | × | | | |
| 21-11-15 | Sleeve | | 0927 | X | | | |
| 5-71-NS | (1) acs | | 0955 | X | | | |
| 51-71-15 | Aletate | | 1009 | X | - | | |
| SN-13-5 | Ship | | 1033 | * | | | |
| 51-13-15 | Lings | | 1047 | × | | | |
| 2-1-3 | Jan. | | 1200 | X | | | |
| SI-17-15 | Liner | | 1210 | X | | | |
| S-H-S | mg + | | 1238 | X | | | |
| S1-H-15 01 | Liner | | 1250 | X | | | |
| 2-91-18 | Can | | 1307 1000 | × | | | |
| 21-11-15 |) Line | | 13% | × | | | |
| 13 58-15-5 | J. K. | > - | 1385 | × | | | |
| MRelinquished & N-15-15 | aminus > | | STAIL REPERIVED BY: V | X | Date/Time: | Turn Around Time: | nd Time: |
| | | | | • | | RUSH | 72 hours |
| Relinquished By: | Date/Time | | Received By: | | Date/Tim: | Sameday | 5 days |
| 7 Migh | S/18/10 | ohSI o | Runna | 112 n | 2/18/16 15:40 | 24 hours 48 hours | Page |
| Relinquished By: | Date/Time | Je | Received in Lab By: | o By: | Date/ Time; | Sample Integrity: (Check) | eck) |
| | | | - | | - | | כם |

Vote: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



WORK ORDER NUMBER: 16-05- 13-01-14-6

Calscience

SAMPLE RECEIPT CHECKLIST

| COOLER_ | | OF . | |
|---------|----|------------|--|
| | 10 | , <u> </u> | |

| client: Stantec | DATE: 05 | 118 | / 2016 |
|--|-----------------|------------------------|--------|
| TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue) Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): | | □ Sam | ıple |
| ☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sample ☐ Sample(s) received at ambient temperature; placed on ice for transport by courier Ambient Temperature: ☐ Air ☐ Filter | | ked by: _ | 659 |
| CUSTODY SEAL: Cooler □ Present and Intact □ Present but Not Intact □ N/A Sample(s) □ Present and Intact □ Present but Not Intact □ N/A | | ked by: _ ked by: _ | |
| SAMPLE CONDITION: Chain-of-Custody (COC) document(s) received with samples COC document(s) received complete Sampling date Sampling time Matrix Number of containers | Yes | No | N/A |
| □ No analysis requested □ Not relinquished □ No relinquished date □ No relinquished Sampler's name indicated on COC Sample container label(s) consistent with COC Sample container(s) intact and in good condition Proper containers for analyses requested Sufficient volume/mass for analyses requested Samples received within holding time | | | |
| Aqueous samples for certain analyses received within 15-minute holding time □ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen Proper preservation chemical(s) noted on COC and/or sample container Unpreserved aqueous sample(s) received for certain analyses | | <u> </u> | A A |
| □ Volatile Organics □ Total Metals □ Dissolved Metals Container(s) for certain analysis free of headspace □ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (SM 4500) | | | Ø |
| ☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach) Tedlar™ bag(s) free of condensation (Trin Blank Let N | | | /d |
| CONTAINER TYPE: Aqueous: □VOA □VOAh □VOAna₂ □100PJ □100PJna₂ □125AGB □125AGBh □ □125PBznna □250AGB □250CGB □250CGBs □250PB □250PBn □500AGB □50 □500PB □1AGB □1AGBna₂ □1AGBs □1PB □1PBna □ □ □ □ □ □ Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve (□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | 125AGBp | 125PB 0AGJs | |
| Container: $A = Amber$, $B = Bottle$, $C = Clear$, $E = Envelope$, $G = Glass$, $J = Jar$, $P = Plastic$, and $Z = Ziple$. Preservative: $b = buffered$, $f = filtered$, $h = HCl$, $n = HNO_3$, $na = NaOH$, $na_2 = Na_2S_2O_3$, $p = H_3PO_4$, L | abeled/Chec | ked by: _ | 619 |

 $s = H_2SO_4$, u = ultra-pure, $znna = Zn(CH_3CO_2)_2 + NaOH$

Reviewed by: _

1

From: Dewoody, James [mailto:James.Dewoody@stantec.com]

Sent: Tuesday, May 31, 2016 12:28 PM

To: Kathleen Burney

Cc: McDaniel, Ryan; Carla Hollowell

Subject: RE: 185803664 / ECI 16-05-1326

Hey Kathleen or Carla,

Could you run samples 16-05-1326-5 and 16-05-1326-6 for TPHd and TPHo by 8015B on a normal turn-around time?

Thanks,

Jim Dewoody

Senior Scientist Stantec

25864-F Business Center Drive Redlands CA 92374-4515

Phone: (909) 255-8212 Cell: (951) 403-4623

James.Dewoody@stantec.com

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Please consider the environment before printing this email.

From: Kathleen Burney [mailto:KathleenBurney@eurofinsUS.com]

Sent: Wednesday, May 25, 2016 3:34 PM

To: Dewoody, James

Cc: McDaniel, Ryan; Carla Hollowell Subject: 185803664 / ECI 16-05-1326

Analytical report attached.

Please let me know if you need anything else. Thank you!

Kathy Burney
Project Manager Assistant
on behalf of

Carla Lee Hollowell Environmental Project Manager



7440 Lincoln Way GARDEN GROVE, CA 92841 USA

Phone: +1 714 895 5494 Mobile: +1 714 904 1892



Calscience



WORK ORDER NUMBER: 16-06-1879

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Stantec

Client Project Name: 185803664

Attention: Jim DeWoody

25864-F Business Center Drive Redlands, CA 92374-4515

Hathken M. burney Fox

Approved for release on 07/06/2016 by:

Carla Hollowell Project Manager



ResultLink ▶

Email your PM >

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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| 4 | Client Sample Data. 4.1 EPA 8015B (M) TPH Motor Oil (Aqueous). 4.2 EPA 8015B (M) TPH Diesel (Aqueous). 4.3 EPA 8015B (M) TPH Gasoline (Aqueous). 4.4 EPA 8260B Volatile Organics + Oxygenates (Aqueous). | 6 6 7 8 9 |
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Work Order Narrative

Work Order: 16-06-1879 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/27/16. They were assigned to Work Order 16-06-1879.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Sample Summary

 Client:
 Stantec
 Work Order:
 16-06-1879

 25864-F Business Center Drive
 Project Name:
 185803664

Redlands, CA 92374-4515 PO Number:

Date/Time 06/27/16 12:25

Received:

Number of 18

Containers:

Attn: Jim DeWoody

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|---------|
| HP-1 | 16-06-1879-1 | 06/27/16 10:20 | 6 | Aqueous |
| HP-2 | 16-06-1879-2 | 06/27/16 09:10 | 6 | Aqueous |
| HP-3 | 16-06-1879-3 | 06/27/16 11:37 | 6 | Aqueous |



Detections Summary

Client: Stantec

Work Order:

16-06-1879

25864-F Business Center Drive Redlands, CA 92374-4515 Project Name: Received:

185803664 06/27/16

Attn: Jim DeWoody

Page 1 of 1

| Client SampleID | | | | | | | |
|-----------------------|--------|-------------------|-----------|--------------|---------------|-------------------|--|
| <u>Analyte</u> | Result | Qualifiers | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> | |
| HP-1 (16-06-1879-1) | | | | | | | |
| TPH as Diesel | 53 | HD | 50 | ug/L | EPA 8015B (M) | EPA 3510C | |
| Tetrachloroethene | 70 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| Trichloroethene | 16 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| HP-2 (16-06-1879-2) | | | | | | | |
| TPH as Diesel | 65 | HD | 50 | ug/L | EPA 8015B (M) | EPA 3510C | |
| Tetrachloroethene | 3.7 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| Trichloroethene | 1.5 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| HP-3 (16-06-1879-3) | | | | | | | |
| TPH as Motor Oil | 1100 | HD | 250 | ug/L | EPA 8015B (M) | EPA 3510C | |
| TPH as Diesel | 310 | HD | 50 | ug/L | EPA 8015B (M) | EPA 3510C | |
| Chloroform | 1.8 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| 1,1-Dichloroethane | 16 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| 1,2-Dichloroethane | 1.7 | | 0.50 | ug/L | EPA 8260B | EPA 5030C | |
| 1,1-Dichloroethene | 100 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| Tetrachloroethene | 5.8 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| 1,1,2-Trichloroethane | 1.7 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |
| Trichloroethene | 12 | | 1.0 | ug/L | EPA 8260B | EPA 5030C | |

Subcontracted analyses, if any, are not included in this summary.

^{*} MDL is shown



 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 3510C

 Method:
 EPA 8015B (M)

 Units:
 ug/L

 Project: 185803664
 Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|------------------------|-----------|---------------|-------------------|-----------------------|-------------|
| HP-1 | 16-06-1879-1-F | 06/27/16 10:20 | Aqueous | GC 48 | 06/29/16 | 06/30/16 00:58 | 160629B14 |
| <u>Parameter</u> | | Result | RL | . | DF | Qua | alifiers |
| TPH as Motor Oil | | ND | 25 | 0 | 1.00 | | |
| <u>Surrogate</u> | | Rec. (%) | <u>Cc</u> | ontrol Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 76 | 68 | -140 | | | |
| HP-2 | 16-06-1879-2-F | 06/27/16 09:10 | Aqueous | GC 48 | 06/29/16 | 06/30/16 01:13 | 160629B14 |
| <u>Parameter</u> | | Result | RL | - | DF | Qua | alifiers |
| TPH as Motor Oil | | ND | 25 | 0 | 1.00 | | |
| Surrogate | | Rec. (%) | <u>Co</u> | ontrol Limits | Qualifiers | | |
| n-Octacosane | | 79 | 68 | -140 | | | |

| HP-3 | 16-06-1879-3-F | 06/27/16 11:37 | Aqueous | GC 48 | 06/29/16 | 06/30/16 01:29 | 160629B14 |
|------------------|----------------|-------------------|-----------|--------------|------------|-------------------|-----------------|
| Parameter | | Result | <u>RL</u> | | DF | Qua | <u>llifiers</u> |
| TPH as Motor Oil | | 1100 | 250 |) | 1.00 | HD | |
| <u>Surrogate</u> | | Rec. (%) | Cor | ntrol Limits | Qualifiers | | |
| n-Octacosane | | 83 | 68- | 140 | | | |

| | Method Blank | 099-15-278-1230 | N/A | Aqueous GC 48 | 06/29/16 | 06/29/16 160629B14 21:53 |
|----------|------------------|-----------------|----------|----------------|------------|-----------------------------|
|] | <u>Parameter</u> | | Result | <u>RL</u> | <u>DF</u> | Qualifiers |
| • | TPH as Motor Oil | | ND | 250 | 1.00 | |
| <u>;</u> | Surrogate | | Rec. (%) | Control Limits | Qualifiers | |
| - | n-Octacosane | | 95 | 68-140 | | |



 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 3510C

 Method:
 EPA 8015B (M)

 Units:
 ug/L

Project: 185803664 Page 1 of 1

| Project: 185803664 | | | | | | Pa | ige 1 of 1 |
|----------------------|----------------------|------------------------|-----------|---------------|-------------------|-----------------------|-----------------|
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
| HP-1 | 16-06-1879-1-F | 06/27/16 10:20 | Aqueous | GC 48 | 06/29/16 | 06/30/16 00:58 | 160629B13 |
| Parameter | | Result | RL | = | <u>DF</u> | Qua | alifiers |
| TPH as Diesel | | 53 | 50 | | 1.00 | HD | |
| Surrogate | | Rec. (%) | <u>Cc</u> | ontrol Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 76 | 68 | -140 | | | |
| HP-2 | 16-06-1879-2-F | 06/27/16 09:10 | Aqueous | GC 48 | 06/29/16 | 06/30/16 01:13 | 160629B13 |
| Parameter | · | Result | RL | . | <u>DF</u> | Qua | <u>alifiers</u> |
| TPH as Diesel | | 65 | 50 | | 1.00 | HD | |
| Surrogate | | Rec. (%) | <u>Cc</u> | ontrol Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 79 | 68 | -140 | | | |
| HP-3 | 16-06-1879-3-F | 06/27/16 11:37 | Aqueous | GC 48 | 06/29/16 | 06/30/16 01:29 | 160629B13 |
| Parameter | | Result | RL | . | <u>DF</u> | Qua | alifiers |
| TPH as Diesel | | 310 | 50 | | 1.00 | HD | |
| Surrogate | | Rec. (%) | <u>Cc</u> | ontrol Limits | <u>Qualifiers</u> | | |
| n-Octacosane | | 83 | 68 | -140 | | | |

| Method Blank | 099-15-304-1449 | N/A | Aqueous | GC 48 | 06/29/16 | 06/29/16 21:53 | 160629B13 |
|------------------|-----------------|----------|-----------|--------------|------------|-------------------|-----------|
| <u>Parameter</u> | | Result | <u>RL</u> | | <u>DF</u> | Qu | alifiers |
| TPH as Diesel | | ND | 50 | | 1.00 | | |
| <u>Surrogate</u> | | Rec. (%) | Cor | ntrol Limits | Qualifiers | | |
| n-Octacosane | | 95 | 68- | 140 | | | |



 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8015B (M)

 Units:
 ug/L

Project: 185803664 Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|------------------------|----------------------|------------------------|-----------|--------------|-------------------|-----------------------|-------------|
| HP-1 | 16-06-1879-1-E | 06/27/16 10:20 | Aqueous | GC 1 | 06/28/16 | 06/29/16 09:58 | 160628L050 |
| Parameter | | Result | RL | | <u>DF</u> | Qua | alifiers |
| TPH as Gasoline | | ND | 100 | 0 | 1.00 | | |
| Surrogate | | Rec. (%) | <u>Co</u> | ntrol Limits | <u>Qualifiers</u> | | |
| 1,4-Bromofluorobenzene | | 61 | 38- | -134 | | | |
| HP-2 | 16-06-1879-2-E | 06/27/16 09:10 | Aqueous | GC 1 | 06/28/16 | 06/29/16 10:34 | 160628L050 |
| <u>Parameter</u> | | Result | RL | | DF | Qua | alifiers |
| TPH as Gasoline | | ND | 100 | 0 | 1.00 | | |
| Surrogate | | Rec. (%) | <u>Co</u> | ntrol Limits | <u>Qualifiers</u> | | |
| 1,4-Bromofluorobenzene | | 57 | 38- | -134 | | | |

| HP-3 | 16-06-1879-3-E | 06/27/16 11:37 | Aqueous GC 1 | 06/28/16 | 06/29/16 11:10 | 160628L050 |
|------------------------|----------------|-------------------|----------------|-------------------|-------------------|------------|
| Parameter | | Result | <u>RL</u> | <u>DF</u> | Qua | alifiers |
| TPH as Gasoline | | ND | 100 | 1.00 | | |
| Surrogate | | Rec. (%) | Control Limits | <u>Qualifiers</u> | | |
| 1,4-Bromofluorobenzene | | 60 | 38-134 | | | |

| Method Blank | 099-15-704-1466 | N/A | Aqueous GC 1 | 06/28/16 | 06/29/16 00:28 | 160628L050 |
|------------------------|-----------------|----------|----------------|-------------------|-------------------|----------------|
| <u>Parameter</u> | | Result | <u>RL</u> | <u>DF</u> | Qua | <u>lifiers</u> |
| TPH as Gasoline | | ND | 100 | 1.00 | | |
| <u>Surrogate</u> | | Rec. (%) | Control Limits | <u>Qualifiers</u> | | |
| 1,4-Bromofluorobenzene | | 59 | 38-134 | | | |



Stantec Date Received: 06/27/16
25864-F Business Center Drive Work Order: 16-06-1879
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/L

Project: 185803664 Page 1 of 12

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|---------|------------|------------------|-----------------------|-----------------|
| HP-1 | 16-06-1879-1-A | 06/27/16 10:20 | Aqueous | GC/MS V V | 06/29/16 | 06/29/16 13:15 | 160629L009 |
| <u>Parameter</u> | | Result | RL | : | <u>DF</u> | Qua | <u>llifiers</u> |
| Acetone | | ND | 20 | | 1.00 | | |
| Benzene | | ND | 0.5 | 50 | 1.00 | | |
| Bromobenzene | | ND | 1.0 |) | 1.00 | | |
| Bromochloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromodichloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromoform | | ND | 1.0 |) | 1.00 | | |
| Bromomethane | | ND | 10 | | 1.00 | | |
| 2-Butanone | | ND | 10 | | 1.00 | | |
| n-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| sec-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| tert-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| Carbon Disulfide | | ND | 10 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 0.5 | 50 | 1.00 | | |
| Chlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Chloroethane | | ND | 5.0 |) | 1.00 | | |
| Chloroform | | ND | 1.0 |) | 1.00 | | |
| Chloromethane | | ND | 10 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| 4-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| Dibromochloromethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 5.0 |) | 1.00 | | |
| 1,2-Dibromoethane | | ND | 1.0 |) | 1.00 | | |
| Dibromomethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Dichlorodifluoromethane | | ND | 1.0 |) | 1.00 | | |
| 1,1-Dichloroethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dichloroethane | | ND | 0.5 | 50 | 1.00 | | |
| 1,1-Dichloroethene | | ND | 1.0 |) | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 1.0 |) | 1.00 | | |
| 1,3-Dichloropropane | | ND | 1.0 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 1.0 |) | 1.00 | | |



 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/L

 Project: 185803664
 Page 2 of 12

| -, | | | | 9 |
|---------------------------------------|---------------|----------------|-------------------|------------|
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | Qualifiers |
| 1,1-Dichloropropene | ND | 1.0 | 1.00 | |
| c-1,3-Dichloropropene | ND | 0.50 | 1.00 | |
| t-1,3-Dichloropropene | ND | 0.50 | 1.00 | |
| Ethylbenzene | ND | 1.0 | 1.00 | |
| 2-Hexanone | ND | 10 | 1.00 | |
| Isopropylbenzene | ND | 1.0 | 1.00 | |
| p-Isopropyltoluene | ND | 1.0 | 1.00 | |
| Methylene Chloride | ND | 10 | 1.00 | |
| 4-Methyl-2-Pentanone | ND | 10 | 1.00 | |
| Naphthalene | ND | 10 | 1.00 | |
| n-Propylbenzene | ND | 1.0 | 1.00 | |
| Styrene | ND | 1.0 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.00 | |
| Tetrachloroethene | 70 | 1.0 | 1.00 | |
| Toluene | ND | 1.0 | 1.00 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 1.00 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 1.00 | |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1.00 | |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.00 | |
| Trichloroethene | 16 | 1.0 | 1.00 | |
| Trichlorofluoromethane | ND | 10 | 1.00 | |
| 1,2,3-Trichloropropane | ND | 5.0 | 1.00 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.00 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.00 | |
| Vinyl Acetate | ND | 10 | 1.00 | |
| Vinyl Chloride | ND | 0.50 | 1.00 | |
| p/m-Xylene | ND | 1.0 | 1.00 | |
| o-Xylene | ND | 1.0 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1.00 | |
| Tert-Butyl Alcohol (TBA) | ND | 10 | 1.00 | |
| Diisopropyl Ether (DIPE) | ND | 2.0 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 2.0 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 2.0 | 1.00 | |
| Ethanol | ND | 100 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> | |
| 1,4-Bromofluorobenzene | 95 | 80-120 | | |
| | | | | |



| Stantec | Date Received: | 06/27/16 |
|-------------------------------|----------------|--------------|
| 25864-F Business Center Drive | Work Order: | 16-06-1879 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/L |
| Project: 185803664 | | Page 3 of 12 |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 103 | 78-126 | |
| 1,2-Dichloroethane-d4 | 113 | 75-135 | |
| Toluene-d8 | 100 | 80-120 | |



Stantec Date Received: 06/27/16
25864-F Business Center Drive Work Order: 16-06-1879
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/L

Project: 185803664 Page 4 of 12

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|---------|-------------------|------------------|-----------------------|-------------|
| HP-2 | 16-06-1879-2-A | 06/27/16 09:10 | Aqueous | Aqueous GC/MS V V | | 06/29/16 13:43 | 160629L009 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | alifiers |
| Acetone | | ND | 20 | | 1.00 | | |
| Benzene | | ND | 0.5 | 60 | 1.00 | | |
| Bromobenzene | | ND | 1.0 |) | 1.00 | | |
| Bromochloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromodichloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromoform | | ND | 1.0 |) | 1.00 | | |
| Bromomethane | | ND | 10 | | 1.00 | | |
| 2-Butanone | | ND | 10 | | 1.00 | | |
| n-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| sec-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| tert-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| Carbon Disulfide | | ND | 10 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 0.5 | 60 | 1.00 | | |
| Chlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Chloroethane | | ND | 5.0 |) | 1.00 | | |
| Chloroform | | ND | 1.0 |) | 1.00 | | |
| Chloromethane | | ND | 10 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| 4-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| Dibromochloromethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 5.0 |) | 1.00 | | |
| 1,2-Dibromoethane | | ND | 1.0 |) | 1.00 | | |
| Dibromomethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Dichlorodifluoromethane | | ND | 1.0 |) | 1.00 | | |
| 1,1-Dichloroethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dichloroethane | | ND | 0.5 | 60 | 1.00 | | |
| 1,1-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 1.0 | | 1.00 | | |
| 1,3-Dichloropropane | | | | | | | |
| | | ND | 1.0 |) | 1.00 | | |



 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/L

 Project: 185803664
 Page 5 of 12

| 110,000.100000004 | | | | 1 age 9 01 12 |
|---------------------------------------|---------------|----------------|-------------------|---------------|
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | Qualifiers |
| 1,1-Dichloropropene | ND | 1.0 | 1.00 | |
| c-1,3-Dichloropropene | ND | 0.50 | 1.00 | |
| t-1,3-Dichloropropene | ND | 0.50 | 1.00 | |
| Ethylbenzene | ND | 1.0 | 1.00 | |
| 2-Hexanone | ND | 10 | 1.00 | |
| Isopropylbenzene | ND | 1.0 | 1.00 | |
| p-Isopropyltoluene | ND | 1.0 | 1.00 | |
| Methylene Chloride | ND | 10 | 1.00 | |
| 4-Methyl-2-Pentanone | ND | 10 | 1.00 | |
| Naphthalene | ND | 10 | 1.00 | |
| n-Propylbenzene | ND | 1.0 | 1.00 | |
| Styrene | ND | 1.0 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.00 | |
| Tetrachloroethene | 3.7 | 1.0 | 1.00 | |
| Toluene | ND | 1.0 | 1.00 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 1.00 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 1.00 | |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1.00 | |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.00 | |
| Trichloroethene | 1.5 | 1.0 | 1.00 | |
| Trichlorofluoromethane | ND | 10 | 1.00 | |
| 1,2,3-Trichloropropane | ND | 5.0 | 1.00 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.00 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.00 | |
| Vinyl Acetate | ND | 10 | 1.00 | |
| Vinyl Chloride | ND | 0.50 | 1.00 | |
| p/m-Xylene | ND | 1.0 | 1.00 | |
| o-Xylene | ND | 1.0 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1.00 | |
| Tert-Butyl Alcohol (TBA) | ND | 10 | 1.00 | |
| Diisopropyl Ether (DIPE) | ND | 2.0 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 2.0 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 2.0 | 1.00 | |
| Ethanol | ND | 100 | 1.00 | |
| <u>Surrogate</u> | Rec. (%) | Control Limits | <u>Qualifiers</u> | |
| 1,4-Bromofluorobenzene | 94 | 80-120 | | |
| | | | | |



| Stantec | Date Received: | 06/27/16 |
|-------------------------------|----------------|--------------|
| 25864-F Business Center Drive | Work Order: | 16-06-1879 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/L |
| Project: 185803664 | | Page 6 of 12 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 101 | 78-126 | |
| 1,2-Dichloroethane-d4 | 111 | 75-135 | |
| Toluene-d8 | 100 | 80-120 | |



Stantec Date Received: 06/27/16
25864-F Business Center Drive Work Order: 16-06-1879
Redlands, CA 92374-4515 Preparation: EPA 5030C

Method: EPA 8260B Units: ug/L

Project: 185803664 Page 7 of 12

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|---------|------------|------------------|-----------------------|-------------|
| HP-3 | 16-06-1879-3-A | 06/27/16 11:37 | Aqueous | GC/MS V V | 06/29/16 | 06/29/16 14:11 | 160629L009 |
| <u>Parameter</u> | | Result | RL | | <u>DF</u> | Qua | alifiers |
| Acetone | | ND | 20 | | 1.00 | | |
| Benzene | | ND | 0.5 | 50 | 1.00 | | |
| Bromobenzene | | ND | 1.0 |) | 1.00 | | |
| Bromochloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromodichloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromoform | | ND | 1.0 |) | 1.00 | | |
| Bromomethane | | ND | 10 | | 1.00 | | |
| 2-Butanone | | ND | 10 | | 1.00 | | |
| n-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| sec-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| tert-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| Carbon Disulfide | | ND | 10 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 0.5 | 50 | 1.00 | | |
| Chlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Chloroethane | | ND | 5.0 |) | 1.00 | | |
| Chloroform | | 1.8 | 1.0 |) | 1.00 | | |
| Chloromethane | | ND | 10 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| 4-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| Dibromochloromethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 5.0 |) | 1.00 | | |
| 1,2-Dibromoethane | | ND | 1.0 |) | 1.00 | | |
| Dibromomethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Dichlorodifluoromethane | | ND | 1.0 |) | 1.00 | | |
| 1,1-Dichloroethane | | 16 | 1.0 |) | 1.00 | | |
| 1,2-Dichloroethane | | 1.7 | 0.5 | 50 | 1.00 | | |
| 1,1-Dichloroethene | | 100 | 1.0 |) | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 1.0 |) | 1.00 | | |
| 1,3-Dichloropropane | | ND | 1.0 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 1.0 |) | 1.00 | | |



1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethyl-t-Butyl Ether (ETBE)

1,4-Bromofluorobenzene

Tert-Amyl-Methyl Ether (TAME)

Vinyl Acetate

Vinyl Chloride

p/m-Xylene

o-Xylene

Ethanol

Surrogate

Analytical Report

Stantec Date Received: 06/27/16 Work Order: 16-06-1879 25864-F Business Center Drive Redlands, CA 92374-4515 Preparation: **EPA 5030C** Method: **EPA 8260B** Units: ug/L Project: 185803664 Page 8 of 12 Result <u>RL</u> <u>DF</u> Qualifiers <u>Parameter</u> ND 1.0 1.00 1,1-Dichloropropene c-1,3-Dichloropropene ND 0.50 1.00 t-1,3-Dichloropropene ND 0.50 1.00 Ethylbenzene ND 1.0 1.00 2-Hexanone ND 10 1.00 Isopropylbenzene ND 1.00 1.0 p-Isopropyltoluene ND 1.0 1.00 Methylene Chloride ND 10 1.00 4-Methyl-2-Pentanone ND 10 1.00 Naphthalene ND 10 1.00 ND n-Propylbenzene 1.0 1.00 Styrene ND 1.0 1.00 1,1,1,2-Tetrachloroethane ND 1.0 1.00 1,1,2,2-Tetrachloroethane ND 1.0 1.00 Tetrachloroethene 1.0 1.00 5.8 Toluene ND 1.0 1.00 1,2,3-Trichlorobenzene ND 1.0 1.00 1,2,4-Trichlorobenzene ND 1.0 1.00 1,1,1-Trichloroethane ND 1.0 1.00 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 10 1.00 1,1,2-Trichloroethane 1.7 1.0 1.00 Trichloroethene 12 1.0 1.00 ND Trichlorofluoromethane 10 1.00

ND

93

Rec. (%)

5.0

1.0

1.0

10

0.50

1.0

1.0

1.0

10

2.0

2.0

2.0

100

80-120

Control Limits

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

Qualifiers



| Stantec | Date Received: | 06/27/16 |
|-------------------------------|----------------|--------------|
| 25864-F Business Center Drive | Work Order: | 16-06-1879 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/L |
| Project: 185803664 | | Page 9 of 12 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 105 | 78-126 | |
| 1,2-Dichloroethane-d4 | 115 | 75-135 | |
| Toluene-d8 | 100 | 80-120 | |



Project: 185803664

Analytical Report

Stantec Date Received: 06/27/16
25864-F Business Center Drive Work Order: 16-06-1879
Redlands, CA 92374-4515 Preparation: EPA 5030C

Preparation: EPA 5030C Method: EPA 8260B Units: ug/L

Page 10 of 12

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|----------------------|------------------------|---------|------------|------------------|-----------------------|-------------|
| Method Blank | 099-14-001-20742 | N/A | Aqueous | GC/MS V V | 06/29/16 | 06/29/16 12:19 | 160629L009 |
| Parameter | | Result | RL | | <u>DF</u> | Qua | alifiers |
| Acetone | | ND | 20 | | 1.00 | | |
| Benzene | | ND | 0.5 | 60 | 1.00 | | |
| Bromobenzene | | ND | 1.0 |) | 1.00 | | |
| Bromochloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromodichloromethane | | ND | 1.0 |) | 1.00 | | |
| Bromoform | | ND | 1.0 |) | 1.00 | | |
| Bromomethane | | ND | 10 | | 1.00 | | |
| 2-Butanone | | ND | 10 | | 1.00 | | |
| n-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| sec-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| tert-Butylbenzene | | ND | 1.0 |) | 1.00 | | |
| Carbon Disulfide | | ND | 10 | | 1.00 | | |
| Carbon Tetrachloride | | ND | 0.5 | 60 | 1.00 | | |
| Chlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Chloroethane | | ND | 5.0 |) | 1.00 | | |
| Chloroform | | ND | 1.0 |) | 1.00 | | |
| Chloromethane | | ND | 10 | | 1.00 | | |
| 2-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| 4-Chlorotoluene | | ND | 1.0 |) | 1.00 | | |
| Dibromochloromethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dibromo-3-Chloropropane | | ND | 5.0 |) | 1.00 | | |
| 1,2-Dibromoethane | | ND | 1.0 |) | 1.00 | | |
| Dibromomethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,3-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| 1,4-Dichlorobenzene | | ND | 1.0 |) | 1.00 | | |
| Dichlorodifluoromethane | | ND | 1.0 | | 1.00 | | |
| 1,1-Dichloroethane | | ND | 1.0 |) | 1.00 | | |
| 1,2-Dichloroethane | | ND | 0.5 | | 1.00 | | |
| 1,1-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| c-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| t-1,2-Dichloroethene | | ND | 1.0 | | 1.00 | | |
| 1,2-Dichloropropane | | ND | 1.0 | | 1.00 | | |
| 1,3-Dichloropropane | | ND | 1.0 | | 1.00 | | |
| 2,2-Dichloropropane | | ND | 1.0 | | 1.00 | | |



 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8260B

 Units:
 ug/L

 Project: 185803664
 Page 11 of 12

| 110,000.10000004 | | | | 1 age 11 01 12 |
|---------------------------------------|-----------------|----------------|-------------------|-------------------|
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Qualifiers</u> |
| 1,1-Dichloropropene | ND | 1.0 | 1.00 | |
| c-1,3-Dichloropropene | ND | 0.50 | 1.00 | |
| t-1,3-Dichloropropene | ND | 0.50 | 1.00 | |
| Ethylbenzene | ND | 1.0 | 1.00 | |
| 2-Hexanone | ND | 10 | 1.00 | |
| Isopropylbenzene | ND | 1.0 | 1.00 | |
| p-Isopropyltoluene | ND | 1.0 | 1.00 | |
| Methylene Chloride | ND | 10 | 1.00 | |
| 4-Methyl-2-Pentanone | ND | 10 | 1.00 | |
| Naphthalene | ND | 10 | 1.00 | |
| n-Propylbenzene | ND | 1.0 | 1.00 | |
| Styrene | ND | 1.0 | 1.00 | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.00 | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.00 | |
| Tetrachloroethene | ND | 1.0 | 1.00 | |
| Toluene | ND | 1.0 | 1.00 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 1.00 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 1.00 | |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1.00 | |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.00 | |
| Trichloroethene | ND | 1.0 | 1.00 | |
| Trichlorofluoromethane | ND | 10 | 1.00 | |
| 1,2,3-Trichloropropane | ND | 5.0 | 1.00 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.00 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.00 | |
| Vinyl Acetate | ND | 10 | 1.00 | |
| Vinyl Chloride | ND | 0.50 | 1.00 | |
| p/m-Xylene | ND | 1.0 | 1.00 | |
| o-Xylene | ND | 1.0 | 1.00 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1.00 | |
| Tert-Butyl Alcohol (TBA) | ND | 10 | 1.00 | |
| Diisopropyl Ether (DIPE) | ND | 2.0 | 1.00 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 2.0 | 1.00 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 2.0 | 1.00 | |
| Ethanol | ND | 100 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | Control Limits | <u>Qualifiers</u> | |
| 1,4-Bromofluorobenzene | 94 | 80-120 | | |
| | | | | |



| Stantec | Date Received: | 06/27/16 |
|-------------------------------|----------------|---------------|
| 25864-F Business Center Drive | Work Order: | 16-06-1879 |
| Redlands, CA 92374-4515 | Preparation: | EPA 5030C |
| | Method: | EPA 8260B |
| | Units: | ug/L |
| Project: 185803664 | | Page 12 of 12 |

| Surrogate | Rec. (%) | Control Limits | <u>Qualifiers</u> |
|-----------------------|----------|----------------|-------------------|
| Dibromofluoromethane | 104 | 78-126 | |
| 1,2-Dichloroethane-d4 | 112 | 75-135 | |
| Toluene-d8 | 98 | 80-120 | |



Quality Control - Spike/Spike Duplicate

 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 3510C

 Method:
 EPA 8015B (M)

Project: 185803664 Page 1 of 3

| Quality Control Sample ID | Type | | Matrix | Ins | strument | Date Prepared | Date Ana | lyzed | MS/MSD Bat | tch Number |
|---------------------------|-----------------|-----------------------|-------------|-------------|--------------|---------------|----------|-------|------------|------------|
| 16-06-2044-2 | Sample | | Aqueous | s GC | C 48 | 06/29/16 | 06/29/16 | 23:56 | 160629S13 | |
| 16-06-2044-2 | Matrix Spike | | Aqueous | s GC | C 48 | 06/29/16 | 06/29/16 | 23:10 | 160629S13 | |
| 16-06-2044-2 | Matrix Spike | Duplicate | Aqueous | s GC | C 48 | 06/29/16 | 06/29/16 | 23:26 | 160629S13 | |
| Parameter | Sample Conc. | <u>Spike</u> Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| TPH as Diesel | ND | 2000 | 1498 | 75 | 1712 | 86 | 55-133 | 13 | 0-30 | |



Quality Control - Spike/Spike Duplicate

 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8015B (M)

Project: 185803664 Page 2 of 3

| Quality Control Sample ID | Type | | Matrix | In | strument | Date Prepared | Date Ana | lyzed | MS/MSD Bat | tch Number |
|---------------------------|-----------------|-----------------------|-------------|-------------|--------------|---------------|----------|-------|------------|------------|
| 16-06-1825-1 | Sample | | Aqueou | ıs G | C 1 | 06/28/16 | 06/29/16 | 01:04 | 160628S027 | , |
| 16-06-1825-1 | Matrix Spike | | Aqueou | ıs G | C 1 | 06/28/16 | 06/29/16 | 01:40 | 160628S027 | • |
| 16-06-1825-1 | Matrix Spike | Duplicate | Aqueou | ıs G | C 1 | 06/28/16 | 06/29/16 | 02:15 | 160628S027 | |
| Parameter | Sample Conc. | <u>Spike</u> Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| TPH as Gasoline | ND | 2000 | 2115 | 106 | 2033 | 102 | 68-122 | 4 | 0-18 | |





Quality Control - Spike/Spike Duplicate

Stantec Date Received: 06/27/16
25864-F Business Center Drive Work Order: 16-06-1879
Redlands, CA 92374-4515 Preparation: EPA 5030C
Method: EPA 8260B

Project: 185803664 Page 3 of 3

| Quality Control Sample ID | Туре | | Matrix | | Instrument | Date Prepared | d Date Ana | lyzed | MS/MSD Bat | ch Number |
|-------------------------------|-----------------|------------------------------|-------------|------------------|--------------|---------------|----------------|-------|------------|------------|
| 16-06-2008-1 | Sample | | Aqueou | Aqueous | | 06/29/16 | 06/29/16 | 16:03 | 160629S012 | |
| 16-06-2008-1 | Matrix Spike | Matrix Spike | | Aqueous G | | 06/29/16 | 06/29/16 16:31 | | 160629S012 | |
| 16-06-2008-1 | Matrix Spike | Duplicate | Aqueou | s | GC/MS V V | 06/29/16 | 06/29/16 | 16:58 | 160629S012 | |
| Parameter | Sample Conc. | <u>Spike</u> <u>Added</u> | MS Conc. | <u>MS</u> %Re | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Benzene | ND | 50.00 | 47.34 | 95 | 45.35 | 91 | 74-122 | 4 | 0-21 | |
| Carbon Tetrachloride | ND | 50.00 | 53.97 | 108 | 52.72 | 105 | 60-144 | 2 | 0-21 | |
| Chlorobenzene | ND | 50.00 | 48.20 | 96 | 46.56 | 93 | 73-120 | 3 | 0-22 | |
| 1,2-Dibromoethane | ND | 50.00 | 51.46 | 103 | 49.96 | 100 | 80-122 | 3 | 0-20 | |
| 1,2-Dichlorobenzene | ND | 50.00 | 48.35 | 97 | 46.66 | 93 | 70-120 | 4 | 0-26 | |
| 1,2-Dichloroethane | ND | 50.00 | 52.57 | 105 | 49.15 | 98 | 64-142 | 7 | 0-20 | |
| 1,1-Dichloroethene | ND | 50.00 | 50.44 | 101 | 49.16 | 98 | 52-136 | 3 | 0-21 | |
| Ethylbenzene | ND | 50.00 | 49.51 | 99 | 48.86 | 98 | 77-125 | 1 | 0-24 | |
| Toluene | ND | 50.00 | 48.72 | 97 | 46.79 | 94 | 72-126 | 4 | 0-23 | |
| Trichloroethene | 2.574 | 50.00 | 53.34 | 102 | 48.45 | 92 | 74-128 | 10 | 0-22 | |
| Vinyl Chloride | ND | 50.00 | 47.64 | 95 | 48.88 | 98 | 67-133 | 3 | 0-20 | |
| p/m-Xylene | ND | 100.0 | 103.4 | 103 | 100.6 | 101 | 63-129 | 3 | 0-25 | |
| o-Xylene | ND | 50.00 | 52.65 | 105 | 51.21 | 102 | 62-128 | 3 | 0-24 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 50.00 | 47.30 | 95 | 48.41 | 97 | 68-134 | 2 | 0-21 | |
| Tert-Butyl Alcohol (TBA) | ND | 250.0 | 240.7 | 96 | 236.8 | 95 | 65-143 | 2 | 0-30 | |
| Diisopropyl Ether (DIPE) | ND | 50.00 | 50.01 | 100 | 48.35 | 97 | 61-139 | 3 | 0-20 | |
| Ethyl-t-Butyl Ether (ETBE) | ND | 50.00 | 47.93 | 96 | 47.05 | 94 | 64-136 | 2 | 0-20 | |
| Tert-Amyl-Methyl Ether (TAME) | ND | 50.00 | 46.52 | 93 | 45.44 | 91 | 67-133 | 2 | 0-20 | |
| Ethanol | ND | 500.0 | 487.3 | 97 | 430.0 | 86 | 34-178 | 12 | 0-58 | |



Quality Control - LCS/LCSD

 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 3510C

 Method:
 EPA 8015B (M)

Project: 185803664 Page 1 of 4

| Quality Control Sample ID | Туре | Ma | trix | Instrument | Date Pre | pared Date | Analyzed | LCS/LCSD Ba | atch Number |
|---------------------------|-------------|-----------|--------------|------------|---------------|------------|------------|-------------|-------------|
| 099-15-278-1230 | LCS | Aq | ueous | GC 48 | 06/29/16 | 06/30 | 0/16 23:55 | 160629B14 | |
| 099-15-278-1230 | LCSD | Aq | ueous | GC 48 | 06/29/16 | 07/01 | 1/16 00:11 | 160629B14 | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| TPH as Motor Oil | 2000 | 1806 | 90 | 1701 | 85 | 75-117 | 6 | 0-13 | |



Quality Control - LCS/LCSD

 Stantec
 Date Received:
 06/27/16

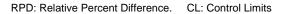
 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 3510C

 Method:
 EPA 8015B (M)

Project: 185803664 Page 2 of 4

| Quality Control Sample ID | Туре | Ma | trix | Instrument | Date Pre | pared Date | Analyzed | LCS/LCSD Ba | atch Number |
|---------------------------|-------------|-----------|--------------|------------|---------------|------------|------------|-------------|-------------|
| 099-15-304-1449 | LCS | Aq | ueous | GC 48 | 06/29/16 | 06/29 | 9/16 22:08 | 160629B13 | |
| 099-15-304-1449 | LCSD | Aq | ueous | GC 48 | 06/29/16 | 06/29 | 9/16 22:23 | 160629B13 | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| TPH as Diesel | 2000 | 2275 | 114 | 2216 | 111 | 75-117 | 3 | 0-13 | |





Quality Control - LCS

 Stantec
 Date Received:
 06/27/16

 25864-F Business Center Drive
 Work Order:
 16-06-1879

 Redlands, CA 92374-4515
 Preparation:
 EPA 5030C

 Method:
 EPA 8015B (M)

Project: 185803664 Page 3 of 4

| Quality Control Sample ID | Туре | Matrix | Instrument | Date Prepared | Date Analyzed | LCS Batch Number |
|---------------------------|------|-------------|---------------|---------------|----------------|------------------|
| 099-15-704-1466 | LCS | Aqueous | GC 1 | 06/28/16 | 06/28/16 23:53 | 160628L050 |
| Parameter | | Spike Added | Conc. Recover | ed LCS %Re | ec. %Rec | . CL Qualifiers |
| TPH as Gasoline | | 2000 | 2057 | 103 | 78-120 | 0 |

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Stantec 25864-F Business Center Drive Redlands, CA 92374-4515 Date Received: Work Order: Preparation: Method: 06/27/16 16-06-1879 EPA 5030C EPA 8260B

Project: 185803664

Page 4 of 4

| Quality Control Sample ID | Туре | | Matrix | | Instrument | Date Prepare | d Date A | nalyzed | LCS/LCSD Ba | tch Number |
|-------------------------------|----------------|-----------|--------------|---------------|------------|--------------|----------|----------|-------------|------------|
| 099-14-001-20742 | LCS | | Aqueous | ; (| GC/MS V V | 06/29/16 | 06/29/ | 16 10:47 | 160629L009 | |
| 099-14-001-20742 | LCSD | | Aqueous | ; (| GC/MS V V | 06/29/16 | 06/29/ | 16 11:24 | 160629L009 | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| Benzene | 50.00 | 48.98 | 98 | 48.11 | 96 | 80-120 | 73-127 | 2 | 0-20 | |
| Carbon Tetrachloride | 50.00 | 59.99 | 120 | 60.98 | 122 | 67-139 | 55-151 | 2 | 0-20 | |
| Chlorobenzene | 50.00 | 49.99 | 100 | 50.58 | 101 | 78-120 | 71-127 | 1 | 0-20 | |
| 1,2-Dibromoethane | 50.00 | 52.21 | 104 | 53.46 | 107 | 80-120 | 73-127 | 2 | 0-20 | |
| 1,2-Dichlorobenzene | 50.00 | 51.41 | 103 | 51.55 | 103 | 63-129 | 52-140 | 0 | 0-20 | |
| 1,2-Dichloroethane | 50.00 | 53.47 | 107 | 52.29 | 105 | 70-130 | 60-140 | 2 | 0-20 | |
| 1,1-Dichloroethene | 50.00 | 40.57 | 81 | 41.33 | 83 | 66-126 | 56-136 | 2 | 0-20 | |
| Ethylbenzene | 50.00 | 52.67 | 105 | 53.29 | 107 | 80-123 | 73-130 | 1 | 0-20 | |
| Toluene | 50.00 | 51.47 | 103 | 51.04 | 102 | 80-120 | 73-127 | 1 | 0-20 | |
| Trichloroethene | 50.00 | 49.75 | 99 | 48.42 | 97 | 80-122 | 73-129 | 3 | 0-20 | |
| Vinyl Chloride | 50.00 | 48.82 | 98 | 48.27 | 97 | 70-130 | 60-140 | 1 | 0-20 | |
| p/m-Xylene | 100.0 | 109.0 | 109 | 110.5 | 111 | 75-123 | 67-131 | 1 | 0-20 | |
| o-Xylene | 50.00 | 55.53 | 111 | 56.27 | 113 | 74-122 | 66-130 | 1 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 50.00 | 51.90 | 104 | 53.57 | 107 | 69-129 | 59-139 | 3 | 0-20 | |
| Tert-Butyl Alcohol (TBA) | 250.0 | 258.4 | 103 | 256.8 | 103 | 69-129 | 59-139 | 1 | 0-20 | |
| Diisopropyl Ether (DIPE) | 50.00 | 52.65 | 105 | 52.82 | 106 | 68-128 | 58-138 | 0 | 0-20 | |
| Ethyl-t-Butyl Ether (ETBE) | 50.00 | 51.11 | 102 | 52.72 | 105 | 63-135 | 51-147 | 3 | 0-20 | |
| Tert-Amyl-Methyl Ether (TAME) | 50.00 | 51.47 | 103 | 51.26 | 103 | 67-133 | 56-144 | 0 | 0-20 | |
| Ethanol | 500.0 | 288.4 | 58 | 290.0 | 58 | 42-168 | 21-189 | 1 | 0-20 | |

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass



Glossary of Terms and Qualifiers

Work Order: 16-06-1879 Page 1 of 1

| Qualifiers | <u>Definition</u> |
|------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without furthe clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| В | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| CI | See case narrative. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |

Χ % Recovery and/or RPD out-of-range. Ζ

Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

16-06-1879

Stantec

| | - | | | Suc | | | | | | | | | | , | | | Page | 29 of 3 |
|--|--|---|-----------------------|--------------------------------|---------|------|-------------------|--|---|--|--|---|---|---|-------------------|----------|---------------------------------|--|
| AND THE PROPERTY OF THE PROPER | | · | ÷ | Special Instructions | | | | | | | | | | | Turn Around Time: | 72 hours | 5 days | (Check) |
| Analysis Reauired | | | | - | | | | | | | | | | , | Turn At | RUSH | Sameday 24 hours 48 hours | Sample Integrity: (Check) intact or |
| Analysis | | | | | | | | | - | | | | | | 7,00 | 1772 | | |
| | | | | | | | | | | | | | | | Date/Time: | 0/22/10 | Date/Tim: | Date/ Time; |
| | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 728 241/9/ | 5 5 H | 19T 20V | × | × | X | | | | | 2 | 0 | | 62 | | | Ву: |
| | す | | | Preservatives | 151/1ce | | > | | | | | | | | ed By: | 1/27 | d By: | Received in Lab By: |
| lumber: | 18580300 | er:909-335-6 | 09-335-6120 | Sampling Sampling Date Time | 1620 | 0910 | 137 | | | | | | | | Receive | 2 | Received By: | Rec |
| Project/PO Number: | 183 | Phone Number:909-335-6116 | Fax Number:909-335-61 | # of Samplin Cont. Date | 2 | 3 | ラ ラ | | | | | | | | | (225 | | |
| <u>a</u> | | | | er | | | ,) | | | | | | | | Date/Time | 127-141 | Date/Time | Date/Time |
| | | Joseph | | Sample | i l | (JO) | GW | | | | | | | | |) (| | The state of the s |
| Client Name/Address: | Stantec 25864-F Business Center Drive Redlands, CA 92374 | Project Manager: Jim Del Joocky Email Address: Fames Di Janoh & Chambar | Sampler: Blan Act and | Sample Description | HP-1 | HP-2 | HP-3 | | | | | | | | Relinguished By: | | Relinquished By: | Relinquished By: |

Vote: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



Calscience

WORK ORDER NUMBER: 16-06- 1879

| SAMPLE RECEIPT CHECKLIST COOLER | OF |
|---|------------|
| CLIENT: Stantec DATE: 06/27 | / 2016 |
| TEMPERATURE: (Criteria: 0.0°C − 6.0°C, not frozen except sediment/tissue) Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 4 → °C (w/ CF): 4 → °C; □ Blank Sam □ Sample(s) outside temperature criteria (PM/APM contacted by:) □ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling □ Sample(s) received at ambient temperature; placed on ice for transport by courier | |
| Ambient Temperature: Air Filter Checked by: | 836 |
| CUSTODY SEAL: Cooler □ Present and Intact □ Present but Not Intact □ Not Present □ N/A Checked by: □ Sample(s) □ Present and Intact □ Present but Not Intact □ Not Present □ N/A Checked by: □ | 836 836 |
| SAMPLE CONDITION: Yes No | N/A |
| Chain-of-Custody (COC) document(s) received with samples | |
| COC document(s) received complete | |
| ☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers | |
| ☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time | |
| Sampler's name indicated on COC | |
| Sample container label(s) consistent with COC | o |
| Sample container(s) intact and in good condition | |
| Proper containers for analyses requested | |
| Sufficient volume/mass for analyses requested | |
| Samples received within holding time | |
| Aqueous samples for certain analyses received within 15-minute holding time | |
| □ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen □ □ | |
| Proper preservation chemical(s) noted on COC and/or sample container | o l |
| Unpreserved aqueous sample(s) received for certain analyses | |
| □ Volatile Organics □ Total Metals □ Dissolved Metals | |
| Container(s) for certain analysis free of headspace | |
| ✓ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (SM 4500) | |
| ☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach) | 1 |
| Tedlar™ bag(s) free of condensation | Ø |
| CONTAINER TYPE: (Trip Blank Lot Number: | , |
| Aqueous: □ VOA □ VOAh □ VOAna2 □ 100PJ □ 100PJna2 □ 125AGB □ 125AGBh □ 125AGBp □ 125PB □ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500AGJ □ 500AGJs □ 500PB □ 1AGB □ 1AGBna2 □ 1AGBs □ 1PB □ 1PBna □ □ □ □ □ □ Solid: □ 4ozCGJ □ 8ozCGJ □ 16ozCGJ □ Sleeve () □ EnCores® () □ TerraCores® () □ □ Air: □ Tedlar™ □ Canister □ Sorbent Tube □ PUF □ Other Matrix (): □ □ | |
| Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag | 82/ |
| Preservative: b = buffered, f = filtered, h = HCl, n = HNO ₃ , na = NaOH, na ₂ = Na ₂ S ₂ O ₃ , p = H ₃ PO ₄ , Labeled/Checked by: | 1403 |

Calscience

WORK ORDER NUMBER: 16-06- 21/879

SAMPLE ANOMALY REPORT

DATE: 06 / <u>27</u> / 2016

| SAMPLES, CONTAINERS, AND LABELS: | Comments |
|---|--|
| ☐ Sample(s) NOT RECEIVED but listed on COC | |
| ☐ Sample(s) received but NOT LISTED on COC | |
| ☐ Holding time expired (list client or ECI sample ID and analysis) | |
| Insufficient sample amount for requested analysis (list analysis) | (3) Received approx. 400 m/ in |
| ☐ Improper container(s) used (list analysis) | 1/1ter amber glass container |
| ☐ Improper preservative used (list analysis) | for IPH-D and Mo. |
| ☐ No preservative noted on COC or label (list analysis and notify lab) | |
| ☐ Sample container(s) not labeled | |
| ☐ Client sample label(s) illegible (list container type and analysis) | |
| ☐ Client sample label(s) do not match COC (comment) | |
| ☐ Project information | |
| ☐ Client sample ID | |
| ☐ Sampling date and/or time | |
| ☐ Number of container(s) | |
| ☐ Requested analysis | |
| ☐ Sample container(s) compromised (comment) | |
| ☐ Broken | |
| ☐ Water present in sample container | |
| ☐ Air sample container(s) compromised (comment) | |
| □ Flat | |
| □ Very low in volume | W |
| ☐ Leaking (not transferred; duplicate bag submitted) | |
| ☐ Leaking (transferred into ECI Tedlar™ bags*) | : |
| ☐ Leaking (transferred into client's Tedlar™ bags*) | |
| * Transferred at client's request. | |
| MISCELLANEOUS: (Describe) | Comments |
| | |
| HEADSPACE: | |
| (Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis) | (Containers with bubble for other analysis) |
| ECI ECI Total ECI ECI Total Sample ID Container ID Number** Sample ID Container ID Number** | ECI ECI Total Sample ID Container ID Number** Requested Analysis |
| 12 A+0E 5 | |
| 3 C, E 5 | |
| | |
| | |
| Comments: | ç. |
| | Reported by: 814 Reviewed by: Wy |
| ** Record the total number of containers (i.e., vials or bottles) for the affected sample. | Reviewed by: |





Mr. Jim Dewoody Stantec - Redlands 25864-F Business Center Dr. Redlands, CA 92374

H&P Project: ST040816-SB2

Client Project: 185803664 / 1515 W. 178th

Dear Mr. Jim Dewoody:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 08-Apr-16 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- · Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- · Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal Laboratory Director

Janis Villarreal

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.





2470 Impala Drive Carlsbad, CA 92010 760-804-9678 Phone 760-804-9159 Fax

Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|--------------|---------------|
| SV-2 | E604033-01 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-1 | E604033-02 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-4 | E604033-03 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-3 | E604033-04 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-3 REP | E604033-05 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-5 | E604033-06 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-6 | E604033-07 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-7 | E604033-08 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-8 | E604033-09 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-9 | E604033-10 | Vapor | 08-Apr-16 | 08-Apr-16 |
| SV-10 | E604033-11 | Vapor | 08-Apr-16 | 08-Apr-16 |

Trichloroethene

Tetrachloroethene

2470 Impala Drive Carlsbad, CA 92010 760-804-9678 Phone 760-804-9159 Fax

| Stantec - Redlands 25864-F Business Center Dr. | Project Number: 18 | T040816-SB2 35803664 / 1515 W. 1 | 78th | = | Reported: | | | |
|---|--------------------|-------------------------------------|-------|------------|-----------|--|--|--|
| Redlands, CA 92374 | Project Manager: M | 15-Apr-16 07:45 | | | | | | |
| | DETECTIONS SU | JMMARY | | | | | | |
| Sample ID: SV-2 | Laboratory ID: | E604033-01 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | | Units | Method | Notes | | | |
| 1,1-Dichloroethene | 0.62 | 0.40 | ug/l | H&P 8260SV | | | | |
| Methylene chloride (Dichloromethane) | 0.45 | 0.40 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 0.51 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-1 | Laboratory ID: | E604033-02 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Tetrachloroethene | 0.41 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-4 | Laboratory ID: | E604033-03 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Methylene chloride (Dichloromethane) | 1.0 | 0.40 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 0.24 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-3 | Laboratory ID: | E604033-04 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | | Units | Method | Notes | | | |
| Tetrachloroethene | 0.31 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-3 REP | Laboratory ID: | E604033-05 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | | Units | Method | Notes | | | |
| Tetrachloroethene | 0.26 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-5 | Laboratory ID: | E604033-06 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Benzene | 0.09 | 0.08 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 1.0 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-6 | Laboratory ID: | E604033-07 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | | Units | Method | Notes | | | |
| Benzene | 0.10 | | ug/l | H&P 8260SV | | | | |
| | | | | | | | | |

0.11

0.99

0.08

0.08

ug/l

ug/l

H&P 8260SV

H&P 8260SV

2470 Impala Drive Carlsbad, CA 92010 760-804-9678 Phone 760-804-9159 Fax

| Stantec - Redlands 25864-F Business Center Dr. Redlands, CA 92374 | Project Number: 1858036 | Project: ST040816-SB2 Project Number: 185803664 / 1515 W. 178th Project Manager: Mr. Jim Dewoody | | | | | | | |
|---|-----------------------------|--|-------|------------|-------|--|--|--|--|
| Sample ID: SV-7 | Laboratory ID: E604 | | | | | | | | |
| r · · · · · · | , | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | | |
| Benzene | 0.10 | 0.08 | ug/l | H&P 8260SV | | | | | |
| Trichloroethene | 0.10 | 0.08 | ug/l | H&P 8260SV | | | | | |
| Tetrachloroethene | 46 | 0.08 | ug/l | H&P 8260SV | | | | | |
| Sample ID: SV-8 | Laboratory ID: E60 4 | 1033-09 | | | | | | | |
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | | |
| Benzene | 0.09 | 0.08 | ug/l | H&P 8260SV | | | | | |
| Sample ID: SV-9 | Laboratory ID: E60 4 | 1033-10 | | | | | | | |
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | | |
| Benzene | 0.10 | 0.08 | ug/l | H&P 8260SV | | | | | |
| Sample ID: SV-10 | Laboratory ID: E60 4 | 1033-11 | | | | | | | |
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | | |
| Benzene | 0.09 | 0.08 | ug/l | H&P 8260SV | | | | | |
| Tetrachloroethene | 0.11 | 0.08 | ug/l | H&P 8260SV | | | | | |

2470 Impala Drive Carlsbad, CA 92010 760-804-9678 Phone 760-804-9159 Fax

Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|---------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-2 (E604033-01) Vapor Sampled: 08-Apr-16 | Received: 08- | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | 0.62 | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | 0.45 | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 0.51 | 0.40 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| m,p Ayrene | שויו | 0.40 | | | | | | | |

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Stantec - Redlands

Project: ST040816-SB2

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W. 178th Project Manager: Mr. Jim Dewoody

15-Apr-16 07:45

Reported:

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---------------|--------------------|--------------|--------------------|---------|-----------|-----------|------------|-------|
| SV-2 (E604033-01) Vapor Sampled: 08-Apr-16 | Received: 08- | Apr-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 104 % | 75-1 | 25 | " | " | " | " | |
| Surrogate: Dioromojiuoromeinane Surrogate: 1,2-Dichloroethane-d4 | | 98.0 % | 75-1 75-1 | | ,, | ,, | " | " | |
| e e e e e e e e e e e e e e e e e e e | | 98.0 % 105 % | /5-1 75-1 | | ,, | ,, | ,, | " | |
| Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene | | 105 % 107 % | 75-1 75-1 | | " | " | " | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-1 (E604033-02) Vapor Sampled: 08-Apr-16 | Received: 08-A | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene (22 e) | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | ,, | " | ,, | ,, | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | ,, | " | ,, | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | ,, | " | ,, | ,, | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | ,, | " | ,, | ,, | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | ,, | " | ,, | " | " | |
| Tetrachloroethene | 0.41 | 0.40 | ,, | " | ,, | ,, | " | " | |
| Dibromochloromethane | 0.41 ND | 0.00 | " | " | " | ,, | " | " | |
| Chlorobenzene | ND | 0.40 | ,, | " | " | " | " | " | |
| Ethylbenzene | ND | 0.08 | " | " | " | ,, | " | " | |
| 1,1,1,2-Tetrachloroethane | ND ND | 0.40 | ,, | ,, | " | " | " | " | |
| m,p-Xylene | ND ND | 0.40 | " | ,, | " | ,, | " | " | |
| m,p-Ayrene | טא | 0.40 | | | | | | | |

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Stantec - Redlands

Project: ST040816-SB2

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W. 178th Project Manager: Mr. Jim Dewoody Reported: 15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|---------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-1 (E604033-02) Vapor Sampled: 08-Apr-16 | Received: 08- | Apr-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 106 % | 75-1. | 25 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 75-1. | 25 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 105 % | 75-1. | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 109 % | 75-1. | 25 | " | " | " | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|-----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-4 (E604033-03) Vapor Sampled: 08-Apr-1 | 6 Received: 08- | -Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | 1.0 | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 0.24 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |

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Stantec - Redlands

Project: ST040816-SB2

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W. 178th Project Manager: Mr. Jim Dewoody Reported: 15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|---------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-4 (E604033-03) Vapor Sampled: 08-Apr-10 | Received: 08- | Apr-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 107 % | 75- | 125 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | 75- | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 106 % | 75- | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | 75-1 | | " | " | " | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-3 (E604033-04) Vapor Sampled: 08-Apr-16 | Received: 08-A | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 0.31 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| b1 | ND | 0.40 | | | | | | | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Her Mobile Geochemstry, Inc. | | | | | | | | | | | |
|--|---------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|--|--|
| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes | | |
| SV-3 (E604033-04) Vapor Sampled: 08-Ap | pr-16 Received: 08- | -Apr-16 | | | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | | | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | | | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | | | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | | | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | | | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | | | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | | | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| | | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | 111 % | 75- | | " | " | " | " | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 110 % | 75- | | " | " | " | " | | | |
| Surrogate: Toluene-d8 | | 105 % | 75- | | " | " | " | " | | | |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 75- | 125 | " | " | " | " | | | |

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Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-3 REP (E604033-05) Vapor Sampled: 08-A _I | or-16 Received | l: 08-Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 0.26 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| ,p 213 tolic | טויו | 0.40 | | | | | | | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------------|----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-3 REP (E604033-05) Vapor | Sampled: 08-Apr-16 | Received | : 08-Apr-16 | | | | | | | |
| o-Xylene | | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Styrene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | | 105 % | 75- | | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | | 105 % | | 125 | " | " | " | " | |
| Surrogate: Toluene-d8 | | | 105 % | 75- | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 104 % | 75- | 125 | " | " | " | " | |

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Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-5 (E604033-06) Vapor Sampled: 08-Apr-16 | Received: 08-A | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.09 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 1.0 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| TICE IVIOUNE GEOCHEMISTRY, THE. | | | | | | | | | | | | |
|---|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|--|--|--|
| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes | | | |
| SV-5 (E604033-06) Vapor Sampled: 08-Apr-1 | 6 Received: 08 | -Apr-16 | | | | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | | | | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | | | | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | | | | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| | | | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | 108 % | | 125 | " | " | " | " | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | | 125 | " | " | " | " | | | | |
| Surrogate: Toluene-d8 | | 106 % | | 125 | " | " | " | " | | | | |
| Surrogate: 4-Bromofluorobenzene | | 107 % | 75- | 125 | " | " | " | " | | | | |

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Stantec - Redlands Project: ST040816-SB2

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Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-6 (E604033-07) Vapor Sampled: 08-Apr-16 | Received: 08-A | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.10 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 0.10 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | ,, | ,, | ,, | ,, | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | ,, | ,, | " | ,, | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | ,, | ,, | ,, | ,, | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | ,, | ,, | ,, | ,, | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | ,, | ,, | " | ,, | " | " | |
| Tetrachloroethene | 0.99 | 0.40 | " | ,, | " | " | " | " | |
| Dibromochloromethane | 0.99 ND | 0.40 | ,, | " | " | ,, | " | " | |
| Chlorobenzene | ND | 0.40 | " | ,, | " | " | " | " | |
| Ethylbenzene | ND ND | 0.08 | ,, | " | " | ,, | " | " | |
| 1,1,1,2-Tetrachloroethane | ND ND | 0.40 | ,, | " | " | " | " | " | |
| m,p-Xylene | ND ND | 0.40 | ,, | " | " | ,, | " | " | |
| m,p-Ayrene | ND | 0.40 | | | | | | | |

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Stantec - Redlands Project: ST040816-SB2

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Volatile Organic Compounds by H&P 8260SV

| The Proble Geochemistry, the. | | | | | | | | | | | | |
|--|------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|--|--|--|
| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes | | | |
| SV-6 (E604033-07) Vapor Sampled: 08-Apr- | 16 Received: 08- | Apr-16 | | | | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | | | | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | | | | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | | | | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| | | | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | 108 % | 75-12 | 25 | " | " | " | " | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | 75-12 | 25 | " | " | " | " | | | | |
| Surrogate: Toluene-d8 | | 107 % | 75-12 | 25 | " | " | " | " | | | | |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 75-12 | 25 | " | " | " | " | | | | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-7 (E604033-08) Vapor Sampled: 08-Apr-16 | Received: 08-A | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.10 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 0.10 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | ,, | ,, | ,, | ,, | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | ,, | ,, | ,, | ,, | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | ,, | ,, | " | ,, | " | " | |
| Tetrachloroethene | 46 | 0.40 | ,, | ,, | ,, | ,, | " | " | |
| Dibromochloromethane | ND | 0.40 | ,, | " | " | ,, | " | " | |
| Chlorobenzene | ND | 0.40 | " | ,, | " | " | " | " | |
| Ethylbenzene | ND ND | 0.08 | ,, | " | " | ,, | " | " | |
| 1,1,1,2-Tetrachloroethane | ND ND | 0.40 | ,, | " | " | " | " | " | |
| m,p-Xylene | ND ND | 0.40 | ,, | " | " | ,, | " | " | |
| m,p-Ayrene | ND | 0.40 | | | | | | | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|-----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-7 (E604033-08) Vapor Sampled: 08-Apr-10 | 6 Received: 08- | -Apr-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | n n | " | n | |
| g , Dy , g , d | | 100.07 | 75 1 | 125 | " | ,, | " | " | |
| Surrogate: Dibromofluoromethane | | 108 % | 75-1 | | | " | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 75-1 | | " | | " | " | |
| Surrogate: Toluene-d8 | | 105 % | 75-1 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 75-1 | 25 | " | " | " | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|---------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-8 (E604033-09) Vapor Sampled: 08-Apr-16 | Received: 08- | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.09 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | ,, | " | |
| m,p-Ayiene | ND | 0.40 | | | | | | | |

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Stantec - Redlands Project: ST040816-SB2

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Volatile Organic Compounds by H&P 8260SV

| Her Mobile Geochemistry, Inc. | | | | | | | | | | | |
|--|---------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|--|--|
| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes | | |
| SV-8 (E604033-09) Vapor Sampled: 08-Ap | pr-16 Received: 08- | -Apr-16 | | | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | | | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | | | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | | | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | | | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | | | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | | | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | | | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | H . | | | |
| | | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | 111 % | | 125 | " | " | " | " | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 109 % | | 125 | " | " | " | " | | | |
| Surrogate: Toluene-d8 | | 107 % | | 125 | " | " | " | " | | | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 75- | 125 | " | " | " | " | | | |

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Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|---------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-9 (E604033-10) Vapor Sampled: 08-Apr-16 | Received: 08- | Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.10 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | ND | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| ,p 21,10110 | שויו | 0.40 | | | | | | | |

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Stantec - Redlands Project: ST040816-SB2

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Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|--------------------|--------------------|----------|--------------------|---------|-----------|-----------|------------|-------|
| SV-9 (E604033-10) Vapor Sampled: 08-Apr | r-16 Received: 08- | Apr-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | п | |
| Surrogate: Dibromofluoromethane | | 105 % | 75- | 125 | " | " | " | " | |
| Surrogate: Dioromojiuoromethane Surrogate: 1,2-Dichloroethane-d4 | | 105 % 107 % | 75 | | ,, | " | ,, | " | |
| 9 | | 107 % 105 % | 75 | | ,, | ,, | ,, | | |
| Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene | | 105 % 107 % | 75 75 | | ,, | ,, | " | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-10 (E604033-11) Vapor Sampled: 08-Apr-10 | Received: 08- | -Apr-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.09 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 0.11 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| n,p-Xylene | ND ND | 0.40 0.40 | | " | | | | | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|-----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-10 (E604033-11) Vapor Sampled: 08-Apr- | 16 Received: 08 | 3-Apr-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | ED60801 | 08-Apr-16 | 08-Apr-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | 106 % | 75- | | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 108 % | 75- | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 104 % | 75- | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | 75- | 125 | " | " | " | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV - Quality Control H&P Mobile Geochemistry, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | | l |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|---|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes | l |

| Blank (ED60801-BLK1) | | | | Prepared & Analyze |
|---------------------------------------|----|------|------|--------------------|
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | |
| Chloromethane | ND | 0.40 | " | |
| Vinyl chloride | ND | 0.04 | " | |
| Bromomethane | ND | 0.40 | " | |
| Chloroethane | ND | 0.40 | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | |
| Chloroform | ND | 0.08 | " | |
| Bromochloromethane | ND | 0.40 | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | |
| Carbon tetrachloride | ND | 0.08 | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | |
| Benzene | ND | 0.08 | " | |
| Trichloroethene | ND | 0.08 | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | |
| Bromodichloromethane | ND | 0.40 | " | |
| Dibromomethane | ND | 0.40 | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | |
| Toluene | ND | 0.80 | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | |
| Tetrachloroethene | ND | 0.08 | " | |
| Dibromochloromethane | ND | 0.40 | " | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Volatile Organic Compounds by H&P 8260SV - Quality Control H&P Mobile Geochemistry, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Blank (ED60801-BLK1) | | | | Prepared & Anal | yzed: 08-Apr-16 | i |
|----------------------------------|------|------|------|-----------------|-----------------|--------|
| Chlorobenzene | ND | 0.08 | ug/l | | | |
| Ethylbenzene | ND | 0.40 | " | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | | | |
| m,p-Xylene | ND | 0.40 | " | | | |
| o-Xylene | ND | 0.40 | " | | | |
| Styrene | ND | 0.40 | " | | | |
| Bromoform | ND | 0.40 | " | | | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | | | |
| n-Propylbenzene | ND | 0.40 | " | | | |
| Bromobenzene | ND | 0.40 | " | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | | | |
| 2-Chlorotoluene | ND | 0.40 | " | | | |
| 4-Chlorotoluene | ND | 0.40 | " | | | |
| tert-Butylbenzene | ND | 0.40 | " | | | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | | | |
| sec-Butylbenzene | ND | 0.40 | " | | | |
| p-Isopropyltoluene | ND | 0.40 | " | | | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | | | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | | | |
| n-Butylbenzene | ND | 0.40 | " | | | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | | | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | | | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | | | |
| Hexachlorobutadiene | ND | 0.40 | " | | | |
| Naphthalene | ND | 0.08 | " | | | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | | | |
| Surrogate: Dibromofluoromethane | 2.03 | | " | 2.00 | 101 | 75-125 |
| Surrogate: 1,2-Dichloroethane-d4 | 1.98 | | " | 2.00 | 99.1 | 75-125 |
| Surrogate: Toluene-d8 | 2.09 | | " | 2.00 | 105 | 75-125 |
| Surrogate: 4-Bromofluorobenzene | 2.05 | | " | 2.00 | 102 | 75-125 |

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RPD

%REC

Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Reporting

Volatile Organic Compounds by H&P 8260SV - Quality Control H&P Mobile Geochemistry, Inc.

Spike

Source

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|---------------------------------------|--------|-------|-------|------------|-----------|-----------|--------|-----|-------|-------|
| Batch ED60801 - EPA 5030 | | | | | | | | | | |
| LCS (ED60801-BS1) | | | | Prepared & | Analyzed: | 08-Apr-16 | | | | |
| Dichlorodifluoromethane (F12) | 4.0 | 0.50 | ug/l | 5.00 | | 81.0 | 70-130 | | | |
| Vinyl chloride | 4.4 | 0.05 | " | 5.00 | | 87.4 | 70-130 | | | |
| Chloroethane | 4.8 | 0.50 | " | 5.00 | | 96.4 | 70-130 | | | |
| Trichlorofluoromethane (F11) | 5.0 | 0.50 | " | 5.00 | | 99.7 | 70-130 | | | |
| 1,1-Dichloroethene | 5.7 | 0.50 | " | 5.00 | | 115 | 70-130 | | | |
| 1,1,2 Trichlorotrifluoroethane (F113) | 6.4 | 0.50 | " | 5.00 | | 127 | 70-130 | | | |
| Methylene chloride (Dichloromethane) | 5.2 | 0.50 | " | 5.00 | | 103 | 70-130 | | | |
| trans-1,2-Dichloroethene | 5.7 | 0.50 | " | 5.00 | | 113 | 70-130 | | | |
| 1,1-Dichloroethane | 5.1 | 0.50 | " | 5.00 | | 102 | 70-130 | | | |
| cis-1,2-Dichloroethene | 5.5 | 0.50 | " | 5.00 | | 109 | 70-130 | | | |
| Chloroform | 5.3 | 0.10 | " | 5.00 | | 106 | 70-130 | | | |
| 1,1,1-Trichloroethane | 5.2 | 0.50 | " | 5.00 | | 103 | 70-130 | | | |
| Carbon tetrachloride | 5.4 | 0.10 | " | 5.00 | | 109 | 70-130 | | | |
| 1,2-Dichloroethane (EDC) | 5.3 | 0.10 | " | 5.00 | | 107 | 70-130 | | | |
| Benzene | 4.8 | 0.10 | " | 5.00 | | 95.4 | 70-130 | | | |
| Trichloroethene | 5.6 | 0.10 | " | 5.00 | | 112 | 70-130 | | | |
| Toluene | 4.8 | 1.0 | " | 5.00 | | 96.3 | 70-130 | | | |
| 1,1,2-Trichloroethane | 5.3 | 0.50 | " | 5.00 | | 106 | 70-130 | | | |
| Tetrachloroethene | 5.7 | 0.10 | " | 5.00 | | 113 | 70-130 | | | |
| Ethylbenzene | 5.2 | 0.50 | " | 5.00 | | 104 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 5.5 | 0.50 | " | 5.00 | | 111 | 70-130 | | | |
| m,p-Xylene | 9.3 | 0.50 | " | 10.0 | | 93.0 | 70-130 | | | |
| o-Xylene | 4.9 | 0.50 | " | 5.00 | | 97.6 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 5.0 | 0.50 | " | 5.00 | | 100 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 2.51 | | " | 2.50 | | 100 | 75-125 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.53 | | " | 2.50 | | 101 | 75-125 | | | |
| Surrogate: Toluene-d8 | 2.59 | | " | 2.50 | | 104 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.82 | | " | 2.50 | | 113 | 75-125 | | | |
| | | | | | | | | | | |

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Stantec - Redlands Project: ST040816-SB2

25864-F Business Center Dr.Project Number:185803664 / 1515 W. 178thReported:Redlands, CA 92374Project Manager:Mr. Jim Dewoody15-Apr-16 07:45

Notes and Definitions

LCC Leak Check Compound

ND Analyte NOT DETECTED at or above the reporting limit

MDL Method Detection Limit

%REC Percent Recovery

RPD Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

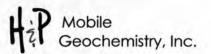


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VAPOR / AIR Chain of Custody

DATE: 3/28/2016

| | Lat | Client and | Project | Information | | | | | | | | | | Sample | e Rece | eipt (L | ab Us | e Only | 1) |
|--|----------------------------------|------------------|--------------------|---|---|-----------------------|------------------------------|-------------------------|--------------------------------|----------------------|-------------------------------------|---|-------------------------------|------------------------------|---------------------|----------------------|---------------------------|----------|-------|
| Lab Client/Consultant Terra | icon | | | Project Name / #: | 6116 | 726 | 0 | | | | | Date F | Rec'd: | | 116 | Contro | 1# - | 16028 | |
| Lab Client Project Manager: | nn John | | | Project Location: S | outly Sal | -lak | 0. (| T | | | | H&P F | Project # | TE | RI | 132 | | 6 - | |
| Lab Client Address: 6949 | | n Tech | Dr | | | | | | | | | Lab W | ork Ord | der# | | | 311 | | - |
| Lab Client City, State, Zip: Mid | tale 1st | 8404 | 7 | Wynn. | john@te heeler@ | vra u | on. (| om | 6 | | | Sampl | le Intac | LPTY | _ | _ | _ | Notes Be | elow |
| Phone Number: 881- 74 | rl. | 0101 | | kent. w | heelere | tem | acor | 1.60 | m | | | Harris Charles | ot Gaug | e ID: | | - | | | 223 |
| Reporting Requir | | 1 | urnaroun | d Time | San | pler Info | rmation | | | | | Outsid | le Lab: | | 116 | 1 | | | 22 (|
| Standard Report Level III | | ☐ 5-7 da | | 24-Hr Rush | Sampler(s): | | Ille | | | | | Receip | ot Notes | /Trackir | ng #: | | | | |
| Excel EDD Other EDD:_ | | ☐ 3-day | | / | Signature: 14/ | Mynn | 1-1 | | | | | Fedi | EX | 775 | 97 | 225 | 5 3 | 375 | - |
| CA Geotracker Global ID: | | ☐ 48-Hr | | Other: | | 7 | Jan | <u></u> | - | | | | | | | | 1.4 | D111-10 | KRI |
| | | ☐ 40-11I | Rusii | U Otiei | Date: 3/28 | //6 | | _ | | | | | _ | | _ | | Lac | PM Initi | iais: |
| ☐ Check if Project Analyte Li: * Preferred VOC units (please ☐ μg/L ☐ μg/m³ ☐ ppt | e choose one): | Керс | ort Otan A | PH Ranges | | | | d Full List XTO-15 | VOCs Short List / Project List | □ TO-15 | hthalene 8260SV ☐ TO-15 ☐ TO-17m | MTO-15m | TPHv as Diesel (sorbent tube) | atic Fractions TO-15m | ompound | А 8015ш | Fixed Gases by ASTM D1945 | | |
| SAMPLE NAME | FIELD POINT NAME (if applicable) | DATE mm/dd/yy | TIME 24hr clock | SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV) | CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube | CONTAINER ID (###) | Lab use only: Receipt Vac | VOCs Standard Full List | VOCs Short Li | Oxygenates R 8260SV | Naphthalene ☐ 8260SV ☐ | TPHv as Gas ☐ TO-15m ☐ 8260SVm ☐ TO-15m | TPHv as Diese | Aromatic/Aliphatic Fractions | Leak Check Compound | Methane by EPA 8015m | Fixed Gases b | | |
| 9G-1 | | 3/28/16 | 14:12 | SV | 400 MC | 008 | -27A | X | ij. | | | X | | X | X | | | | |
| 96-2 | | 3 28/16 | 1443 | sV | 400mL | 354 | -2.75 | λ | | | | X | | X | χ | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Approved Resinquishur July | | Terrac | on | 3/28/16 | TOTE: 58 | Received by | 1 | di | 1.0 | 1 | ` | Company | HT. | P | Date | 3/20 | 7/16 | Time: / | 350 |
| Approved/Relinquished by: | | Company | | Date: * | Time: | Received by: | | | | | | Company: | | | Date: | | | Time: | |
| | | | | Date: | Time: | | | | | | | | | | Date: | | | Time: | |



2470 Impala Drive, Carlsbad, CA 92010 & Field Office - Signal Hill, CA W handpmg.com E info@handpmg.com P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 3/21/16
Page 1 of 1

| | Lat | Client an | d Project | Information | | | | | | | | | | Sampl | e Rec | eipt (I | Lab Us | e Only | () | |
|--|--|------------------|--------------------|---|---|-----------------------|------------------------------|-------------------------|--------------------------------|--------------------|-------------------------|-----------------------|-------------------------------|---|---------------------|----------------------|---------------------------|-----------|-------|----|
| Lab Client/Consultant: | 1751A 100 | | | | IRGC. | rele | Trie | | 5 | 4 | -1 | Date | | | | | ol #: \(| | | 02 |
| Lab Client Project Manager: | Friedma | 10 | | Project Name / #: Project Location: | IRGC4 | LBI | 06 | 7 | | | | H&P | Project | # AN | JTO: | 327 | 216- | -11 | | _ |
| Lab Client Address: 32.29 E - 5 | Orina Stocket | Swite 10 | 6 | Report E-Mail(s): | | | | | | | | Lab V | Vork Or | der# | F 6 | 0 | 30 | 94 | | |
| I I an Client Cliv State Vin. | | 30.10.10 | 0 | Jeff.t | rieduc | - 00 | rate | 2900 | · p. | | | | | | | | See I | | elow | |
| Phone Number: (107 107 1100 | 3each 2-4534 | VIM | 3/22/14 | 1 | | | | 0- | _ | | | | | | 0760 | | | Temp: | | |
| Reporting Require | | | urnaroun | | EDMAN Canto | npler Info | | | | | | | de Lab: | - 1 | 0 100 | 01 | | | 171 | |
| Standard Report Level III | | | 2000 | 000000 | Sampler(s): | | | 11 | | | | Recei | pt Note: | s/Tracki | ng #: | | | | | |
| 7 | L Level IV | 5-7 da | | 24-Hr Rush | Signature: | Jagner | | - | | | | | Paragra. | -,(50 | | | | | | |
| Excel EDD Other EDD: | | ☐ 3-day | | Mobile Lab | Phi | Me | gr | _ | - | | | | | | | | K | o PM Init | Y. | 0 |
| CA Geotracker Global ID: | | ☐ 48-Hr | Rush | Other: | Date: 3/2/ | 116 | | | | | | | | | | | Lab | PM Init | ials: | KI |
| ☐ Check if Project Analyte List * Preferred VOC units (please ☐ μg/L ☐ μg/m³ ☐ ppbv | choose one): | • | | ject Fo Hg by EPA | 170-15 K | | | ard Full List | VOCs Short List / Project List | □ TO-15 | Naphthalene | TO-15m | TPHv as Diesel (sorbent tube) | Aromatic/Aliphatic Fractions 8260SVm T0-15m | Compound IPA He | EPA 8015m | Fixed Gases by ASTM D1945 | | | |
| SAMPLE NAME | FIELD POINT NAME (if applicable) | DATE mm/dd/yy | TIME 24hr clock | SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV) | CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tediar or Tube | CONTAINER ID (###) | Lab use only: Receipt Vac | VOCs Standard Full List | VOCs Short I | Oxygenates 8260SV | Naphthalene □ 8260SV | TPHv as Gas ☐ 8260SVm | TPHv as Dies ☐ TO-17m | Aromatic/Aliphat | Leak Check Compound | Methane by EPA 8015m | Fixed Gases | | | |
| AA-I | NA | 3/21/16 | 1505 | AA | 6L Summa | 5019 | -5.18 | | X | | | X | | | | | | | | |
| AA.2 | | | 1515 | AA | 6LSumma | 5T026 | -5.62 | | X | | | X | | - | | | | | | |
| | | | | | | | | | | km | 3/22/ | IV | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | 1 | 10 | 0 | | | | 94 | S. | | | , | | | | |
| Approved Refinguished by/ | | ulie (T | 1/0 | 3/2/16 | 1500 | Received by: | SH | Ja | 7- | | | Company | LP | | Date 3 | 21/1 | 6 | Time: | 0 | |
| Approved Relinquished by: | | Company: | 0 | Date. | Time: | Received by: | | C | | | | Company | | | Date: | | | Time: | | |
| Approved/Relinquished by: | | Company: | | Date: | Time: | Received by: | | | | | | Company | 1 | | Date: | | | Time: | | |



FMS004 Revision: 3

Revised: 1/15/2016 Effective: 1/25/2016

Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

| H&P Project #: | 5T040816-5B2 | Tech | Date: | 4 | 8 16 | | |
|-------------------|---------------|-------------|-------------|------|-------|---|--------------|
| The second second | 1515 W. 178th | st. Govdena | Page: | 1 | of | 1 | - 6/ |
| Consultant: | STANTEL | | H&P Rep(s): | D. 7 | 00 | | Reviewed: |
| Consultant Rep(s) | Matt 5000 | _ | | AV | Nagne | 5 | Scanned: 015 |

Equipment Info Inline Gauge ID#: NA Pump ID#: 615

Purge Volume Information PV Includes: Tubing PV Amount:

3PV

☑ Sand 40%

Dry Bent 50%

Leak Check Compound

☑ 1,1-DFA ☐ 1,1,1,2-TFA A cloth saturated with LCC is placed around

for all samples unless otherwise noted. ☐ Other:

| Г | Sample Info | ormatio | n | | | | Pro | be Sp | ecs | | | Purge & Collection Information | | | | | | |
|----|-------------|---------------|--------------------------|----------------|------------------------|--------------------------|-----|------------------|----------------------|--------------------------|---------------------------|----------------------------------|----------------------|-------------------|--------------------------------|---------------------------|---------------------------------|---------------------------|
| Ī | Point ID | Syringe ID | Sample Volume (cc) | Sample Time | Probe Depth (ft) | Tubing Length (ft) | | Sand Ht (in.) | Sand Dia (in.) | Dry Bent. Ht (in.) | Dry Bent. Dia (in.) | Shut In Test 60 sec (✓) | Leak Check (✓) | Purge Vol (mL) | Purge Flow Rate (mL/min) | Pump Time (min:sec) | Sample Flow Rate (mL/min) | ProbeVac ☐ Hg ☑ H₂O |
| 1 | 5V-2 | 37 | 40 | 0949 | 5 | 7 | 1/8 | 12 | 3.5 | 6 | 3.5 | 1 | ~ | 3709 | 200 | 18'33" | 200 | Ò |
| 2 | 54-1 | 112 | 40 | 1010 | 5 | 7 | 14 | 12 | 35 | 6 | 3.5 | V | 1 | 3709 | 400 | 9'16" | 200 | 0 |
| 3 | 5V-4 | 204 | 40 | 1029 | 5 | 7 | 1/8 | 12 | 3.5 | 6 | 3.5 | / | 1 | 3709 | 400 | 9'16" | 200 | 0 |
| 4 | 50-3 | 203 | 40 | 1049 | 5 | 7 | 1/8 | 12 | 3.5 | 6 | 3.5 | ~ | / | 3701 | 400 | 9.16 | 200 | 0 |
| 5 | SV-3 REP | 225 | 40 | 1050 | 5 | ٦ | 1/8 | 12 | 3.5 | 6 | 3.5 | ~ | / | 3749 | MA | MA | 200 | 0 |
| 6 | 5V-5 | 149 | 40 | 1109 | 5 | 7 | 1/8 | 12 | 3.5 | 6 | 3.5 | 1 | / | 3709 | 400 | 9.16. | 200 | 0 |
| 7 | 5V-6 | 112 | 40 | 1133 | 5 | 7 | 118 | 12 | 3.5 | Ь | 3.5 | 1 | / | 3709 | 400 | 9.16. | 200 | 0 |
| 8 | 5V-7 | 211 | 40 | 1156 | 5 | 7 | 1/8 | 12 | 3.5 | 6 | 3.5 | / | / | 3709 | 400 | 9.16. | 200 | 0 |
| 9 | 5V-8 | 87 | 40 | 1223 | 5 | 7 | 118 | 12 | 3.5 | 6 | 3.5 | / | / | 3709 | 400 | 9.16" | 200 | 0 |
| 10 | 50.9 | 204 | 40 | 1248 | 5 | 7 | 1/8 | 12 | 3.5 | 4 | 3.5 | / | / | 3709 | 400 | 916 | 200 | 6 |
| 11 | 5V-10 | 225 | 40 | 1308 | 5 | 2 | 118 | 12 | 3.5 | 6 | 3.5 | 1 | 1 | 3709 | 400 | 916 | 200 | 0 |
| 12 | 0.10 | 9 | 10 | 300 | 3 | | | | | | | | | | | | | |

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):





Mr. James Dewoody Stantec - Redlands 25864-F Business Center Dr. Redlands, CA 92374

H&P Project: ST051916-SB1

Client Project: 185803664 / 1515 W 178th St

Dear Mr. James Dewoody:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 19-May-16 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal Laboratory Director

Janes Villarreal

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.



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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---------------|---------------|--------|--------------|---------------|
| Sample 1D | Laboratory ID | Matrix | Date Sampled | Date Received |
| SV-12-15' | E605058-01 | Vapor | 19-May-16 | 19-May-16 |
| SV-12-15' Rep | E605058-02 | Vapor | 19-May-16 | 19-May-16 |
| SV-11-15' | E605058-03 | Vapor | 19-May-16 | 19-May-16 |
| SV-17-15' | E605058-04 | Vapor | 19-May-16 | 19-May-16 |
| SV-16-15' | E605058-05 | Vapor | 19-May-16 | 19-May-16 |
| SV-15-15' | E605058-06 | Vapor | 19-May-16 | 19-May-16 |
| SV-11-5' | E605058-07 | Vapor | 19-May-16 | 19-May-16 |
| SV-12-5' | E605058-08 | Vapor | 19-May-16 | 19-May-16 |
| SV-13-5' | E605058-09 | Vapor | 19-May-16 | 19-May-16 |
| SV-17-5' | E605058-10 | Vapor | 19-May-16 | 19-May-16 |
| SV-14-5' | E605058-11 | Vapor | 19-May-16 | 19-May-16 |
| SV-16-5' | E605058-12 | Vapor | 19-May-16 | 19-May-16 |
| SV-15-5' | E605058-13 | Vapor | 19-May-16 | 19-May-16 |

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| Stantec - Redlands | Project: ST0 |)51916-SB1 | | | | | | |
|-----------------------------|----------------------|---|-------|-----------------|-------|--|--|--|
| 25864-F Business Center Dr. | | Project Number: 185803664 / 1515 W 178th St | | | | | | |
| Redlands, CA 92374 | Project Manager: Mr. | James Dewoody | | 25-May-16 13:55 | | | | |
| | DETECTIONS SUN | MMARY | | | | | | |
| Sample ID: SV-12-15' | Laboratory ID: | E605058-01 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Trichloroethene | 2.4 | 0.08 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 31 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-12-15' Rep | Laboratory ID: | E605058-02 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Trichloroethene | 2.0 | 0.08 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 23 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-11-15' | Laboratory ID: | E605058-03 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Trichloroethene | 2.8 | 0.08 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 7.4 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-17-15' | Laboratory ID: | E605058-04 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Trichloroethene | 0.40 | 0.08 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 24 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-16-15' | Laboratory ID: | E605058-05 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Benzene | 0.09 | 0.08 | ug/l | H&P 8260SV | | | | |
| Trichloroethene | 0.30 | 0.08 | ug/l | H&P 8260SV | | | | |
| Tetrachloroethene | 3.5 | 0.08 | ug/l | H&P 8260SV | | | | |
| Sample ID: SV-15-15' | Laboratory ID: | E605058-06 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | |
| Benzene | 0.09 | 0.08 | ug/l | H&P 8260SV | | | | |
| | 3.1 | 0.08 | ug/l | H&P 8260SV | | | | |
| Trichloroethene | V1. | | | | | | | |

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| Stantec - Redlands | Project: ST | 051916-SB1 | | | | |
|-----------------------------|---------------------|---------------------|--------|-----------------|-------|--|
| 25864-F Business Center Dr. | Project Number: 18 | 5803664 / 1515 W 17 | 8th St | Reported: | | |
| Redlands, CA 92374 | Project Manager: Mi | r. James Dewoody | | 25-May-16 13:55 | | |
| Sample ID: SV-11-5' | Laboratory ID: | E605058-07 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Units | Method | Notes | |
| Benzene | 0.17 | 0.08 | ug/l | H&P 8260SV | | |
| Trichloroethene | 2.1 | 0.08 | ug/l | H&P 8260SV | | |
| Tetrachloroethene | 6.1 | 0.08 | ug/l | H&P 8260SV | | |
| m,p-Xylene | 0.51 | 0.40 | ug/l | H&P 8260SV | | |
| Sample ID: SV-12-5' | Laboratory ID: | E605058-08 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Units | Method | Notes | |
| Trichloroethene | 1.3 | 0.08 | ug/l | H&P 8260SV | | |
| Tetrachloroethene | 15 | 0.08 | ug/l | H&P 8260SV | | |
| Sample ID: SV-13-5' | Laboratory ID: | E605058-09 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Units | Method | Notes | |
| Benzene | 0.10 | 0.08 | ug/l | H&P 8260SV | | |
| Trichloroethene | 0.13 | 0.08 | ug/l | H&P 8260SV | | |
| Tetrachloroethene | 68 | 0.08 | ug/l | H&P 8260SV | | |
| Sample ID: SV-17-5' | Laboratory ID: | E605058-10 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Units | Method | Notes | |
| Benzene | 0.15 | 0.08 | ug/l | H&P 8260SV | | |
| Trichloroethene | 0.42 | 0.08 | ug/l | H&P 8260SV | | |
| Tetrachloroethene | 27 | 0.08 | ug/l | H&P 8260SV | | |
| Sample ID: SV-14-5' | Laboratory ID: | E605058-11 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Units | Method | Notes | |
| Benzene | 0.14 | 0.08 | ug/l | H&P 8260SV | | |
| Trichloroethene | 0.28 | 0.08 | ug/l | H&P 8260SV | | |
| Tetrachloroethene | 21 | 0.08 | ug/l | H&P 8260SV | | |
| Sample ID: SV-16-5' | Laboratory ID: | E605058-12 | | | | |
| | | Reporting | | | | |
| Analyte | Result | | Units | Method | Notes | |
| Trichloroethene | 0.64 | 0.08 | ug/l | H&P 8260SV | | |
| Tetrachloroethene | 14 | 0.08 | ug/l | H&P 8260SV | | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

| Sample ID: SV-15-5' Laboratory ID: E605058-13 | | | | | | | | | |
|---|--------|-----------|-------|------------|-------|--|--|--|--|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Method | Notes | | | | |
| Trichloroethene | 1.7 | 0.08 | ug/l | H&P 8260SV | | | | | |
| Tetrachloroethene | 4.6 | 0.08 | ug/l | H&P 8260SV | | | | | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-12-15' (E605058-01) Vapor Sampled: 19-Ma | ny-16 Receive | d: 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 2.4 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 31 | 0.40 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Ethylbenzene | ND ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND ND | 0.40 | " | " | " | " | " | " | |
| m,p regione | IND | 0.40 | | | | | | | |

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Reported:

25-May-16 13:55

Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Volatile Organic Compounds by H&P 8260SV

| Analyte | | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------------|----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-12-15' (E605058-01) Vapor | Sampled: 19-May-16 | Received | l: 19-May-16 | | | | | | | |
| o-Xylene | | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| | | | | | | | | | | |
| Surrogate: Dibromofluoromethan | | | 121 % | 75- | | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d- | 4 | | 122 % | 75- | | " | " | " | " | |
| Surrogate: Toluene-d8 | | | 115 % | 75- | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzen | e | | 111 % | 75- | 125 | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-12-15' Rep (E605058-02) Vapor Sam | pled: 19-May-16 Re | ceived: 19-Ma | y-16 | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 2.0 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 23 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.48 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| ,,, | 140 | 0.40 | | | | | | | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|------------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-12-15' Rep (E605058-02) Vapor | Sampled: 19-May-16 Rec | eived: 19-Ma | y-16 | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | n | " | " | " | |
| Surrogate: Dibromofluoromethane | | 109 % | 75- | -125 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 113 % | | .125 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | | 125 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | | 125 | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|-----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-11-15' (E605058-03) Vapor Sampled: 19-May-1 | 6 Receive | d: 19-May-16 | | | | • | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 2.8 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 7.4 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |

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Reported:

25-May-16 13:55

Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Volatile Organic Compounds by H&P 8260SV

| Analyte | 1 | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------------|----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-11-15' (E605058-03) Vapor | Sampled: 19-May-16 | Received | l: 19-May-16 | | | | | | | |
| o-Xylene | | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Surrogate: Dibromofluoromethan | o. | | 119 % | 75 | -125 | ,, | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | | 111 % | | .125 | " | " | ,, | " | |
| Surrogate: Toluene-d8 | , | | 101 % | | .125 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 2 | | 114 % | | 125 | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-17-15' (E605058-04) Vapor Sampled: 19-M | lay-16 Receive | d: 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 0.40 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 24 | 0.40 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | ,, | " | " | ,, | " | |
| Chlorobenzene | ND | 0.40 | " | ,, | " | " | ,, | " | |
| Ethylbenzene | ND ND | 0.40 | " | ,, | " | " | ,, | " | |
| 1,1,1,2-Tetrachloroethane | ND ND | 0.40 | " | ,, | ,, | " | ,, | " | |
| m,p-Xylene | ND ND | 0.40 | " | ,, | ,, | " | ,, | " | |
| III,p-Ayielle | טא | 0.40 | | | | | | | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | R | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------------|----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-17-15' (E605058-04) Vapor | Sampled: 19-May-16 | Received | l: 19-May-16 | | | | | | | |
| o-Xylene | | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Surrogate: Dibromofluoromethan | 10 | | 112 % | 75. | -125 | ,, | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d- | | | 114 % | | -125 -125 | " | " | " | " | |
| Surrogate: Toluene-d8 | , | | 112 % | | -125 -125 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzen | e | | 95.5 % | | -125 | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-16-15' (E605058-05) Vapor Sampled: 19-M | ay-16 Received | l: 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | n . | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | n . | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.09 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 0.30 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 3.5 | 0.40 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | | | " | " | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Her Frome Geochemstry, Inc. | | | | | | | | | | | | |
|--|------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|--|--|--|
| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes | | | |
| SV-16-15' (E605058-05) Vapor Sampled: 19 | -May-16 Received | d: 19-May-16 | | | | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | | | | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | | | | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | | | | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | | | | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | |
| | | | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | 106 % | 75-12 | 5 | " | " | " | " | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 108 % | 75-12 | 5 | " | " | " | " | | | | |
| Surrogate: Toluene-d8 | | 97.9 % | 75-12 | 5 | " | " | " | " | | | | |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 75-12 | 5 | " | " | " | " | | | | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-15-15' (E605058-06) Vapor Sampled: 19-M | 1ay-16 Receive | d: 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | n . | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | n . | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | n . | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.09 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 3.1 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 7.1 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| 111,p 24,90010 | טאו | 0.40 | | | | | | | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Reported:
Project Manager: Mr. James Dewoody 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | 1 | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------------|----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-15-15' (E605058-06) Vapor | Sampled: 19-May-16 | Received | l: 19-May-16 | | | | | | | |
| o-Xylene | | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| C | | | 107.07 | | 125 | " | " | " | " | |
| Surrogate: Dibromofluoromethan | | | 107 % | 75-1 | | | " | | | |
| Surrogate: 1,2-Dichloroethane-d- | 4 | | 107 % | 75-1 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | | 99.4 % | 75-1 | | " | | " | " | |
| Surrogate: 4-Bromofluorobenzen | е | | 106 % | 75-1 | 125 | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|-----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-11-5' (E605058-07) Vapor Sampled: 19-May-16 | Received: | : 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | n . | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.17 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 2.1 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 6.1 | 0.48 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | 0.51 | 0.40 | " | " | " | " | " | n . | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|-------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-11-5' (E605058-07) Vapor Sampled: 19- | -May-16 Received: | 19-May-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | _ |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| C | | 110.07 | 75 10 |).5 | ,, | " | " | " | |
| Surrogate: Dibromofluoromethane | | 110 % | 75-12 | | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 113 % | 75-12 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 103 % | 75-12 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 108 % | 75-12 | :5 | " | ,, | " | ,, | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-12-5' (E605058-08) Vapor Sampled: 19-May-10 | Received | : 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | n . | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | n . | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | n . | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 1.3 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 15 | 0.48 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |
| m,p Ayrono | IND | U. 4 U | | | | | | | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Resu | Reporting alt Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|----------------------|------------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-12-5' (E605058-08) Vapor San | npled: 19-May-16 Rec | eived: 19-May-16 | | | | | | | |
| o-Xylene | N | D 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | N | D 0.40 | " | " | " | " | " | " | |
| Bromoform | N | D 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | N | D 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | N | D 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | N | D 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | N | D 0.40 | " | " | " | " | " | " | |
| Bromobenzene | N | D 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | N | D 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | N | D 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | N | D 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | N | D 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | N | D 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | N | D 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | N | D 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | N | D 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | N | D 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | N | D 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | N | D 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | N | D 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | N | D 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | N | D 0.40 | " | " | " | " | " | " | |
| Naphthalene | N | D 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | N | D 0.40 | " | " | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 114 % | 75-1 | 125 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 117 % | 75-1 | 125 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 100 % | 75-1 | 125 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 110 % | 75-1 | 125 | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|-------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-13-5' (E605058-09) Vapor Sampled: 19-May- | 16 Received | l: 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.10 | 0.08 | " | " | " | n . | " | " | |
| Trichloroethene | 0.13 | 0.08 | " | " | " | n . | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | n . | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | n . | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | n . | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | n . | " | " | |
| Toluene | ND | 0.80 | " | " | " | n . | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 68 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|---------------------|--------------------|----------------|--------------------|---------|-----------|-----------|------------|-------|
| SV-13-5' (E605058-09) Vapor Sampled: | 19-May-16 Received: | 19-May-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| C | | 101.0/ | 75 10 | 25 | ,, | " | " | " | |
| Surrogate: Dibromofluoromethane | | 101 % 108 % | 75-12 75-12 | | ,, | ,, | ,, | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 108 % 102 % | /5-12 75-12 | | ,, | ,, | ,, | " | |
| Surrogate: Toluene-d8 | | 102 % 111 % | /5-12 75-12 | | ,, | ,, | ,, | " | |
| Surrogate: 4-Bromofluorobenzene | | 111 % | /3-12 | <i>:</i> 3 | | | | | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| yte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|----------------|----------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| 7-5' (E605058-10) Vapor Sampled: 19-May-16 | Received | l: 19-May-16 | | | | | | | |
| Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| lorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| romethane | ND | 0.40 | " | " | " | " | " | " | |
| l chloride | ND | 0.04 | " | " | " | " | " | " | |
| nomethane | ND | 0.40 | " | " | " | " | " | " | |
| roethane | ND | 0.40 | " | " | " | " | " | " | |
| lorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| ylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| yl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| -1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| ,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| roform | ND | 0.08 | " | " | " | " | " | " | |
| nochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| -Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| on tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| ene | 0.15 | 0.08 | " | " | " | n . | " | " | |
| nloroethene | 0.42 | 0.08 | " | " | " | " | " | " | |
| Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| nodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| omomethane | ND | 0.40 | " | " | " | " | " | " | |
| ,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| ene | ND | 0.80 | " | " | " | " | " | " | |
| -1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| -Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| achloroethene | 27 | 0.08 | " | " | " | " | " | " | |
| omochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| robenzene | ND | 0.08 | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| lbenzene ,2-Tetrachloroethane Xylene | ND ND ND | 0.40 0.40 0.40 | | | " | | " | | |

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Reported:

25-May-16 13:55

Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|---------------------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-17-5' (E605058-10) Vapor S | ampled: 19-May-16 Receive | ved: 19-May-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| | | | | | | | " | | |
| Surrogate: Dibromofluoromethane | | 104 % | 75-1 | | " | " | | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | 75-1 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 99.5 % | 75-1 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 108 % | 75-1 | 25 | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-14-5' (E605058-11) Vapor Sampled: 19-May-1 | 6 Received | l: 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | 0.14 | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 0.28 | 0.08 | " | " | " | n . | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | n . | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | n . | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | n . | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 21 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.40 | " | " | " | " | " | " | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------------------|-----------|--------------------|----------|--------------------|---------|-----------|-----------|------------|-------|
| SV-14-5' (E605058-11) Vapor | Sampled: 19-May-16 | Received: | 19-May-16 | | | | | | | |
| o-Xylene | | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | | ND | 0.40 | " | " | " | II . | " | " | |
| Surrogate: Dibromofluorometha. | na | | 108 % | 75 | 125 | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-a | | | 113 % | 75 75 | | " | " | " | " | |
| Surrogate: Toluene-d8 | FT | | 97.0 % | 75 75 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzen | ne | | 94.3 % | 75 75 | | " | " | " | " | |
| Sail Saile. I Diomojiaoi oochizer | | | 71.570 | ,5. | | | | | | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| ND ND ND ND ND ND ND ND ND ND ND ND | 19-May-16 0.40 0.40 0.40 0.04 0.40 0.40 0.40 0. | ug/l " " " " | 0.04 | EE61907 | 19-May-16 | 19-May-16 " " | H&P 8260SV | |
|--|--|---|---|---|---|---|------------|----|
| ND ND ND ND ND ND ND ND | 0.40 0.40 0.04 0.40 0.40 0.40 | " " " | " " | " | " | " | " | |
| ND ND ND ND ND ND ND | 0.40 0.04 0.40 0.40 0.40 0.40 | " " " | " | " | " | " | | |
| ND ND ND ND ND ND | 0.04 0.40 0.40 0.40 0.40 | " | " | " | " | | " | |
| ND ND ND ND ND | 0.40 0.40 0.40 0.40 | " | " | | | " | | |
| ND ND ND ND | 0.40 0.40 0.40 | " | | " | | | " | |
| ND ND ND | 0.40 0.40 | | | | " | " | " | |
| ND ND | 0.40 | " | " | " | " | " | " | |
| ND | | | " | " | " | " | " | |
| | 0.40 | " | " | " | " | " | " | |
| ND | 0.10 | " | " | " | " | " | " | |
| | 0.40 | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| ND | 0.08 | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| ND | | " | " | " | " | " | " | |
| ND | | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| 0.64 | | " | " | " | " | " | " | |
| | 0.40 | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | 0.40 | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | 0.40 | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| ND | 0.40 | " | " | " | " | " | " | |
| 14 | 0.08 | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | | " | " | " | " | " | " | |
| | ND N | ND 0.40 ND 0.08 ND 0.08 ND 0.08 ND 0.40 | ND 0.40 " ND 0.08 " ND 0.40 " ND 0.40 " ND 0.08 " ND 0.40 " | ND 0.40 " " " ND 0.40 " " " ND 0.40 " " " " " ND 0.40 " " " " ND 0.40 " " " " ND 0.40 " " " " " " " " " " " " " " " " " " " | ND 0.40 " " " " " ND 0.40 " " " " ND 0.40 " " " " " ND 0.40 " " " " " ND 0.40 " " " " ND 0.40 " " " " ND 0.40 " " " " ND 0.88 " " " " ND 0.88 " " " " ND 0.40 " " " " " ND 0.40 " " " " ND 0.40 " " " " " " " ND 0.40 " " " " " " " ND 0.40 " " " " " " " ND 0.40 " " " " " " " " ND 0.40 " " " " " " " " ND 0.40 " " " " " " " " " " ND 0.40 " " " " " " " " " " ND 0.40 " " " " " " " " " " ND 0.40 " " " " " " " " " " ND 0.40 " " " " " " " " " " " " " " " " " " " | ND 0.40 " " " " " " " ND 0.40 " " " " " " " " " " " ND 0.40 " " " " " " " " " " " " " " " " " " " | ND | ND |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|-------------------|--------------------|--------------|--------------------|---------|-----------|-----------|------------|-------|
| SV-16-5' (E605058-12) Vapor Sampled: 19 | -May-16 Received: | 19-May-16 | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 103 % | 75-1 | 25 | " | " | ,, | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 109 % | 75-1 75-1 | | " | " | ,, | " | |
| Surrogate: Toluene-d8 | | 99.3 % | 75-1 75-1 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 108 % | 75-1 75-1 | | " | " | " | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|--|-------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|
| SV-15-5' (E605058-13) Vapor Sampled: 19-May- | 16 Received | l: 19-May-16 | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.04 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.40 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.40 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | " | " | " | " | " | |
| Chloroform | ND | 0.08 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.08 | " | " | " | " | " | " | |
| Benzene | ND | 0.08 | " | " | " | " | " | " | |
| Trichloroethene | 1.7 | 0.08 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.40 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| Toluene | ND | 0.80 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.40 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | " | " | " | " | " | |
| Tetrachloroethene | 4.6 | 0.08 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.40 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.08 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.40 | " | " | " | " | " | " | |
| - | | | " | " | " | " | " | " | |
| | | | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane m,p-Xylene | ND ND | 0.40 0.40 | " | " | | " | | | |

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Stantec - Redlands

Project: ST051916-SB1

25864-F Business Center Dr. Redlands, CA 92374 Project Number: 185803664 / 1515 W 178th St Project Manager: Mr. James Dewoody

Reported: 25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV

| Her widdle Geochemistry, me. | | | | | | | | | | | | | |
|---|-----------------|--------------------|-------|--------------------|---------|-----------|-----------|------------|-------|--|--|--|--|
| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes | | | | |
| SV-15-5' (E605058-13) Vapor Sampled: 19-M | 1ay-16 Received | : 19-May-16 | | | | | | | | | | | |
| o-Xylene | ND | 0.40 | ug/l | 0.04 | EE61907 | 19-May-16 | 19-May-16 | H&P 8260SV | | | | | |
| Styrene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| Bromoform | ND | 0.40 | " | " | " | " | " | " | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | " | " | " | " | " | | | | | |
| n-Propylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| Bromobenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 2-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 4-Chlorotoluene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| tert-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| sec-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| p-Isopropyltoluene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,3-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,4-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| n-Butylbenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,2-Dichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | " | " | " | " | " | " | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| Hexachlorobutadiene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| Naphthalene | ND | 0.08 | " | " | " | " | " | " | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.40 | " | " | " | " | " | " | | | | | |
| | | | | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | | 111 % | 75-12 | 5 | " | " | " | " | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 118 % | 75-12 | 5 | " | " | " | " | | | | | |
| Surrogate: Toluene-d8 | | 101 % | 75-12 | 5 | " | " | " | " | | | | | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 75-12 | 5 | " | " | " | " | | | | | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV - Quality Control H&P Mobile Geochemistry, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Batch EE61907 - EPA 5030 | | | | |
|--------------------------------------|----|------|------|--------------------------------|
| Blank (EE61907-BLK1) | | | | Prepared & Analyzed: 19-May-16 |
| 1,1-Difluoroethane (LCC) | ND | 0.40 | ug/l | |
| Dichlorodifluoromethane (F12) | ND | 0.40 | " | |
| Chloromethane | ND | 0.40 | " | |
| Vinyl chloride | ND | 0.04 | " | |
| Bromomethane | ND | 0.40 | " | |
| Chloroethane | ND | 0.40 | " | |
| Trichlorofluoromethane (F11) | ND | 0.40 | " | |
| ,1-Dichloroethene | ND | 0.40 | " | |
| ,1,2 Trichlorotrifluoroethane (F113) | ND | 0.40 | " | |
| Methylene chloride (Dichloromethane) | ND | 0.40 | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.40 | " | |
| rans-1,2-Dichloroethene | ND | 0.40 | " | |
| ,1-Dichloroethane | ND | 0.40 | " | |
| 2,2-Dichloropropane | ND | 0.40 | " | |
| sis-1,2-Dichloroethene | ND | 0.40 | " | |
| Chloroform | ND | 0.08 | " | |
| Bromochloromethane | ND | 0.40 | " | |
| ,1,1-Trichloroethane | ND | 0.40 | " | |
| ,1-Dichloropropene | ND | 0.40 | " | |
| Carbon tetrachloride | ND | 0.08 | " | |
| ,2-Dichloroethane (EDC) | ND | 0.08 | " | |
| Benzene | ND | 0.08 | " | |
| Trichloroethene | ND | 0.08 | " | |
| ,2-Dichloropropane | ND | 0.40 | " | |
| Bromodichloromethane | ND | 0.40 | " | |
| Dibromomethane | ND | 0.40 | " | |
| cis-1,3-Dichloropropene | ND | 0.40 | " | |
| Toluene | ND | 0.80 | " | |
| rans-1,3-Dichloropropene | ND | 0.40 | " | |
| 1,1,2-Trichloroethane | ND | 0.40 | " | |
| ,2-Dibromoethane (EDB) | ND | 0.40 | " | |
| 1,3-Dichloropropane | ND | 0.40 | " | |
| Tetrachloroethene | ND | 0.08 | " | |
| Dibromochloromethane | ND | 0.40 | " | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Volatile Organic Compounds by H&P 8260SV - Quality Control H&P Mobile Geochemistry, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| | | | | | | | | | | |

| Blank (EE61907-BLK1) | | | | Prepared & Anal | yzed: 19-May-16 | 5 | |
|----------------------------------|------|------|------|-----------------|-----------------|--------|--|
| Chlorobenzene | ND | 0.08 | ug/l | | | | |
| Ethylbenzene | ND | 0.40 | " | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.40 | " | | | | |
| n,p-Xylene | ND | 0.40 | " | | | | |
| o-Xylene | ND | 0.40 | " | | | | |
| Styrene | ND | 0.40 | " | | | | |
| Bromoform | ND | 0.40 | " | | | | |
| sopropylbenzene (Cumene) | ND | 0.40 | " | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.40 | " | | | | |
| 1,2,3-Trichloropropane | ND | 0.40 | " | | | | |
| n-Propylbenzene | ND | 0.40 | " | | | | |
| Bromobenzene | ND | 0.40 | " | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.40 | " | | | | |
| 2-Chlorotoluene | ND | 0.40 | " | | | | |
| -Chlorotoluene | ND | 0.40 | " | | | | |
| ert-Butylbenzene | ND | 0.40 | " | | | | |
| ,2,4-Trimethylbenzene | ND | 0.40 | " | | | | |
| ec-Butylbenzene | ND | 0.40 | " | | | | |
| o-Isopropyltoluene | ND | 0.40 | " | | | | |
| ,3-Dichlorobenzene | ND | 0.40 | " | | | | |
| ,4-Dichlorobenzene | ND | 0.40 | " | | | | |
| n-Butylbenzene | ND | 0.40 | " | | | | |
| ,2-Dichlorobenzene | ND | 0.40 | " | | | | |
| ,2-Dibromo-3-chloropropane | ND | 4.0 | " | | | | |
| ,2,4-Trichlorobenzene | ND | 0.40 | " | | | | |
| Hexachlorobutadiene | ND | 0.40 | " | | | | |
| Naphthalene | ND | 0.08 | " | | | | |
| ,2,3-Trichlorobenzene | ND | 0.40 | " | | | | |
| Surrogate: Dibromofluoromethane | 1.98 | | " | 2.00 | 99.0 | 75-125 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.14 | | " | 2.00 | 107 | 75-125 | |
| Surrogate: Toluene-d8 | 1.60 | | " | 2.00 | 80.2 | 75-125 | |
| Surrogate: 4-Bromofluorobenzene | 2.29 | | " | 2.00 | 115 | 75-125 | |

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RPD

Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Reporting

Volatile Organic Compounds by H&P 8260SV - Quality Control H&P Mobile Geochemistry, Inc.

Spike

Source

%REC

| | | Reporting | | Spike | Source | | /orch | | KID | |
|---------------------------------------|--------|-----------|-------|------------|-----------|-----------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch EE61907 - EPA 5030 | | | | | | | | | | |
| LCS (EE61907-BS1) | | | | Prepared & | Analyzed: | 19-May-16 | | | | |
| Dichlorodifluoromethane (F12) | 2.8 | 0.40 | ug/l | 4.00 | | 70.1 | 70-130 | | | |
| Vinyl chloride | 3.0 | 0.04 | " | 4.00 | | 75.7 | 70-130 | | | |
| Chloroethane | 3.4 | 0.40 | " | 4.00 | | 85.2 | 70-130 | | | |
| Trichlorofluoromethane (F11) | 3.6 | 0.40 | " | 4.00 | | 89.8 | 70-130 | | | |
| ,1-Dichloroethene | 3.6 | 0.40 | " | 4.00 | | 89.3 | 70-130 | | | |
| 1,1,2 Trichlorotrifluoroethane (F113) | 4.0 | 0.40 | " | 4.00 | | 101 | 70-130 | | | |
| Methylene chloride (Dichloromethane) | 4.0 | 0.40 | " | 4.00 | | 101 | 70-130 | | | |
| rans-1,2-Dichloroethene | 4.4 | 0.40 | " | 4.00 | | 111 | 70-130 | | | |
| 1,1-Dichloroethane | 3.7 | 0.40 | " | 4.00 | | 93.1 | 70-130 | | | |
| cis-1,2-Dichloroethene | 4.6 | 0.40 | " | 4.00 | | 114 | 70-130 | | | |
| Chloroform | 4.6 | 0.08 | " | 4.00 | | 116 | 70-130 | | | |
| ,1,1-Trichloroethane | 4.5 | 0.40 | " | 4.00 | | 111 | 70-130 | | | |
| Carbon tetrachloride | 4.5 | 0.08 | " | 4.00 | | 111 | 70-130 | | | |
| ,2-Dichloroethane (EDC) | 4.5 | 0.08 | " | 4.00 | | 112 | 70-130 | | | |
| Benzene | 4.5 | 0.08 | " | 4.00 | | 113 | 70-130 | | | |
| Trichloroethene | 4.9 | 0.08 | " | 4.00 | | 122 | 70-130 | | | |
| Toluene | 4.2 | 0.80 | " | 4.00 | | 106 | 70-130 | | | |
| 1,1,2-Trichloroethane | 4.5 | 0.40 | " | 4.00 | | 113 | 70-130 | | | |
| Tetrachloroethene | 4.7 | 0.08 | " | 4.00 | | 118 | 70-130 | | | |
| Ethylbenzene | 4.5 | 0.40 | " | 4.00 | | 112 | 70-130 | | | |
| ,1,1,2-Tetrachloroethane | 4.6 | 0.40 | " | 4.00 | | 116 | 70-130 | | | |
| n,p-Xylene | 8.8 | 0.40 | " | 8.00 | | 110 | 70-130 | | | |
| o-Xylene | 4.5 | 0.40 | " | 4.00 | | 111 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 4.4 | 0.40 | " | 4.00 | | 109 | 70-130 | | | |
| | | | | | | | | | | |
| Surrogate: Dibromofluoromethane | 2.39 | | " | 2.00 | | 120 | 75-125 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.34 | | " | 2.00 | | 117 | 75-125 | | | |
| Surrogate: Toluene-d8 | 2.12 | | " | 2.00 | | 106 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 2.09 | | " | 2.00 | | 105 | 75-125 | | | |

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Stantec - Redlands Project: ST051916-SB1

25864-F Business Center Dr.Project Number:185803664 / 1515 W 178th StReported:Redlands, CA 92374Project Manager:Mr. James Dewoody25-May-16 13:55

Notes and Definitions

LCC Leak Check Compound

ND Analyte NOT DETECTED at or above the reporting limit

MDL Method Detection Limit

%REC Percent Recovery

RPD Relative Percent Difference

Appendix

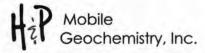
H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

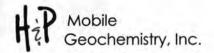


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VAPOR / AIR Chain of Custody

DATE: 5-19-14
Page 1 of 2

| | Lal | Client an | d Project | Information | | | | | 1 | | | | | | eipt (L | ab Us | e Only | 1) | |
|---|-----------------|-----------|------------|---|-----------------------|--------------|------------------------------|--|------------|------------------------------|------------------|-------------------------------|------------------------------|---------------------|----------------------|---------------------------|----------|--------|-----|
| Lab Client/Consultant: Stantec | | | | Project Name / | * 18580366 | 4 | | | 1 | | Date | Rec'd: | 5-19-1 | le . | Contro | ol #: le | 0448. | 03/. | 04 |
| Lab Client Project Manager: Jim | arrodit | | | Project Location | 1515 W. 1784 | h St. G | arden | 0 | | 1 | H&P | Project | # 57 | 1051 | 9114- | SBI | | 457. | - |
| Lab Client Address: 25864 F B | ucian co Mala | Do | | Donat E Maille | | | | | | | Lab V | Vork Or | der# | Flance | 5058 | 10 | 561 | 907 | - 1 |
| Lab Client City, State, Zip: Red land | La co cante | d. | | james.d. | woody@ St Sappe St | antec. ci |)M | | | | - | | | | | See I | | | |
| Phone Number: 909-735-76 | 15 CH · 9231 | T | | matthew | Sappe | 441 co. c. | 9.5 | | | | | pt Gaug | | | | | Temp: | | |
| | | 1 - | | | | | | _ | | | | de Lab: | | | | - | | - | |
| Reporting Requirer | | | urnaroun | Samplar(a): | | | 1 | | Recei | pt Note | s/Tracki | na #: | - | _ | - | - | | | |
| Standard Report Level III | | ☐ 5-7 da | | | 0: 1 | 1/ 00 | lor | - | | | | | | | | | | | |
| Excel EDD Other EDD: | | 3-day | | Mobile Lab | | | 1 | | | | | | | | | | | | |
| CA Geotracker Global ID: | | ☐ 48-Hr | Rush | Other: | Date: 5 | 1191 | 16 | | | | | | | | | Lat | PM Init | tials: | |
| ☐ Check if Project Analyte List i * Preferred VOC units (please o ☐ μg/L ☐ μg/m³ ☐ ppbv | hoose one): | DATE | TIME | SAMPLE TY Indoor Air (IA), Am Air (AA), Subslab | ient SIZE & TYPI | E E | Lab use only: Receipt Vac | VOCs Standard Full List № 8260SV □ T0-15 VOCs Short List / Project List □ 8260SV | Oxygenates | thalene 260SV TO-15 T | as Gas 260SVm | TPHv as Diesel (sorbent tube) | Aromatic/Aliphatic Fractions | Leak Check Compound | Methane by EPA 8015m | Fixed Gases by ASTM D1945 | | | |
| SAMPLE NAME | (if applicable) | mm/dd/yy | 24hr clock | Soil Vapor (SV | | NO O | Lab u Rece | | Oxyg | Naph | TPF [| TPH T | Arom 8 | Z e | Meth | Fixed | | | |
| SV-12-15' | | 05/19/16 | 0750 | SV | Glass Syring | e | | X | | | | | | X, | | | | - | |
| SV-12-15' Rep | | 1 | 0751 | | | | | X | | | | | | X | | | | | |
| SV-11-15' | | | 0805 | | | 1 | | X | | | | | | X | | | | | |
| SV-17-15' | | Telegraph | 0834 | | | | | X | | | | | | X | | | | | |
| SV-16-151 | | | 0906 | | | | | X | | | | 11 | 0.3 | X | | | | | |
| SV-15-151 | | | 0928 | | | | | X | | | | | | X | | . 3 | | | |
| SV-11-51 | | | 0959 | | | | | X | - | | | | | 1 | | | | | |
| SV-12-51 | | | 1021 | | | | | X | | | | | | X | | | | | |
| SV-, 13-5' | | - 1 | 1056 | | | | | X | | | | | | X | | | | () | |
| 51-17-51 | | V | 1235 | V | V | 0.1 | | X | | | | | | X | | | | | |
| Approyed/Reinfushed by: | | Stan | 40 | 5/19/16 | 1530 | Received by | enta | Im | | , | Company | Mob | le | Date: | 19-14 | | Time 150 | 03 | |
| Approved/Relinquished by: | | Company | | Date: | Time: | Received by: | | 0 | | | Company | | | Date | | | Time: | | |
| Approved/Relinquished by: | | Company | | Date: | Time: | Received by: | | | | | Company | r. | | Date | | | Time: | | |



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VAPOR / AIR Chain of Custody

DATE: <u>5-19-14</u>
Page <u>1</u> of <u>2</u>

| | Lat | Client and | d Project | Information | | | | | | | | | | | | | | e Only | | |
|--|--|-------------------|--------------------|--|---|-----------------------|------------------------------|-------------------------|--------------------------------|--------------------|--|--|-------------------------|------------------------------|---------------------|----------------------|---------------------------|----------|-------|---|
| Lab Client/Consultant: Stantec | | | | Project Name / #: | 8580364 | | | | | | | Date F | Rec'd: 5 | -19-1 | 6 | Contro | 3448 | 1.03/ | .04 | |
| Lab Client Project Manager: Jim De | wand. | | | Project Location: | 11. 1784 St | . Gara | dena | | | | | H&P | Project | # S7 | 1051 | 916 | -SB | 1 | | |
| Lab Client Address: 258/4 4 F 3 | Susings Cent | e Driv | , | Project Location: 1515 W. 1784 St., Gardena Report E-Mail(s): james. dewoody e Stantec. com Mathew. Sappe | | | | | | | | H&P Project # ST051916-SB Lab Work Order # £605058 / ££61907 | | | | | | | | |
| Lab Client Address: 25864 F. Busines Center Drive Lab Client City, State, Zip: Redlands, CA. 92374 | | | | James, dewoody & Stantec. com | | | | | | | | | | | | | | Notes Be | | |
| Phone Number: 909-335-6116 | x 8012 | ' | | nather | . sappe | | | | | | | Recei | pt Gaug | e ID: | | | | Temp: | | |
| Reporting Requireme | | Т | urnaroun | | | pler Info | | | | | 7 | Outsid | de Lab: | | | | | | | |
| | Level IV | ☐ 5-7 da | y Stnd | 24-Hr Rush | Completel: | Tay | | | | | | Recei | pt Notes | s/Tracki | ng #: | | | | | |
| Excel EDD Other EDD: 3-day Rush | | | | Mobile Lab | Signature: | | | | | | | | | | | | | | | |
| CA Geotracker Global ID: | | ☐ 48-Hr | | Other: | Date: 57 | 119/1 | 6 | | | | | 1 | | | | | Lat | PM Init | ials: | |
| Additional Instructions to Laborate Check if Project Analyte List is A * Preferred VOC units (please cho | Attached oose one): | | | | CONTUNED | ~ | l e | ard Full List | VOCs Short List / Project List | □ TO-15 | Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m | TPHv as Gas ☐ 8260SVm ☐ TO-15m | sel (sorbent tube) | Aromatic/Aliphatic Fractions | Compound IPA He | EPA 8015m | Fixed Gases by ASTM D1945 | | | |
| SAMPLE NAME | FIELD POINT NAME (if applicable) | DATE mm/dd/yy | TIME 24hr clock | SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV) | CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube | CONTAINER ID (###) | Lab use only: Receipt Vac | VOCs Standard Full List | VOCs Short | Oxygenates 8260SV | Naphthalene | TPHv as Gas ☐ 8260SVn | TPHv as Die: ☐TO-17m | Aromatic/Ali | Leak Check Compound | Methane by EPA 8015m | Fixed Gases | | | |
| SV-14-51 | | 05/19/14 | 1306 | SV | Glass Syringe | | | X | | | | | | | X | | | | | |
| SV-16-51 | | 1 | 1331 | | 1 | | | X | | | | | | | X | | | | | |
| SV-15-51 | | V | 1406 | V | V | | | X | | | | | | | X | | | | | |
| | | | | | | | | | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | , | | | | | | | | | | | | | | | |
| Approved IR Hished by: | | Company: | | Date: / | Time: | Received by | | 0 | v | | | 9pmpany | 344-1 | 1 | Date: | | | Time: 5 | 02 | - |
| Approved/Relinquished by: Approved/Relinquished by: | | Stant Company: | " | 5/19/16 Date | 15:30 Time: | Received by: | ento | Z | W | | - | Company | | ile | 5- Date: | 19-16 | | Time: | 20 | |
| Approved/Relinquished by: | | Company | | Date: | Time: | Received by: | | | | | | Company | r | | Date: | | | Time: | | |



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H&P Method 8260SV (Modified EPA 8260B) Soil Vapor VOC List

| OW | - | |
|--------|---|--|
| | | |

| Compound | CAS# | Vapor (µg/L) |
|---------------------------------------|-------------|--------------|
| Dichlorodifluoromethane (F12) | 75-71-8 | 0.4 |
| Chloromethane | 74-87-3 | 0.4 |
| Vinyl chloride | 75-01-4 | 0.04 |
| Bromomethane | 74-83-9 | 0.4 |
| Chloroethane | 75-00-3 | 0.4 |
| Trichlorofluoromethane (F11) | 75-69-4 | 0.4 |
| 1,1-Dichloroethene | 75-35-4 | 0.4 |
| 1,1,2-Trichlorotrifluoroethane (F113) | 76-13-1 | 0.4 |
| Methylene chloride (Dichloromethane) | 75-09-2 | 0.4 |
| Methyl tertiary-butyl ether (MTBE) | 1634-04-4 | 0.4 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.4 |
| 1,1-Dichloroethane | 75-34-3 | 0.4 |
| 2,2-Dichloropropane | 594-20-7 | 0.4 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.4 |
| Bromochloromethane | 74-97-5 | 0.4 |
| Chloroform | 67-66-3 | 0.08 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.4 |
| 1,1-Dichloropropene | 563-58-6 | 0.4 |
| Carbon tetrachloride | 56-23-5 | 0.08 |
| 1,2-Dichloroethane (EDC) | 107-06-2 | 0.08 |
| Benzene | 71-43-2 | 0.08 |
| Trichloroethene | 79-01-6 | 0.08 |
| 1,2-Dichloropropane | 78-87-5 | 0.4 |
| Dibromomethane | 74-95-3 | 0.4 |
| Bromodichloromethane | 75-27-4 | 0.4 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.4 |
| Toluene | 108-88-3 | 0.8 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.4 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.4 |
| 1,3-Dichloropropane | 142-28-9 | 0.4 |
| Tetrachloroethene | 127-18-4 | 0.08 |
| Dibromochloromethane | 124-48-1 | 0.4 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 0.4 |
| Chlorobenzene | 108-90-7 | 0.08 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.4 |
| Ethylbenzene | 100-41-4 | 0.4 |
| m,p-Xylene | 179601-23-1 | 0.4 |
| o-Xylene | 95-47-6 | 0.4 |
| Styrene | 100-42-5 | 0.4 |
| Bromoform | 75-25-2 | 0.4 |
| Isopropylbenzene (Cumene) | 98-82-8 | 0.4 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.4 |
| n-Propylbenzene | 103-65-1 | 0.4 |



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H&P Method 8260SV (Modified EPA 8260B) Soil Vapor VOC List

| Low | KL. |
|-------|------|
| Vapor | (ua/ |

| | | Low RL* |
|-----------------------------|----------|--------------|
| Compound | CAS# | Vapor (µg/L) |
| 1,2,3-Trichloropropane | 96-18-4 | 0.4 |
| Bromobenzene | 108-86-1 | 0.4 |
| 2-Chlorotoluene | 95-49-8 | 0.4 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.4 |
| 4-Chlorotoluene | 106-43-4 | 0.4 |
| tert-Butylbenzene | 98-06-6 | 0.4 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.4 |
| sec-Butylbenzene | 135-98-8 | 0.4 |
| p-Isopropyltoluene | 99-87-6 | 0.4 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.4 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.4 |
| n-Butylbenzene | 104-51-8 | 0.4 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.4 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 4.0 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.4 |
| Hexachlorobutadiene | 87-68-3 | 0.4 |
| Naphthalene | 91-20-3 | 0.08 |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.4 |
| Leak Check Compound | | |
| 1,1-Difluoroethane (LCC) | 75-37-6 | 0.4 |
| | | |

^{*}NOTE: Low RLs can be achieved using a 25cc large volume injection - (Commercial CHHSLs)



FMS004 Revision: 3

Revised: 1/15/2016 Effective: 1/25/2016

Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

| H&P Project #: | ST051916-SB1 | Date: | 5-19-16 | | |
|--------------------|---------------------------|-------------|----------|-----------|-----------------------|
| Site Address: | 1515 W. 178th St. Gardena | Page: | 1 | of Z | |
| Consultant: | Stantec | H&P Rep(s): | C. Smith | T. Taylox | Reviewed: 5/25/16 K96 |
| Consultant Rep(s): | Matt | | | | Scanned: |

Equipment Info

Pump ID#: 006

PV Amount: 3 PV PV Includes: Tubing

☑ Sand 40%

Dry Bent 50%

Leak Check Compound

Q1,1-DFA

A cloth saturated with LCC is placed around ☐ 1,1,1,2-TFA tubing connections and probe seal. This is done ☐ IPA for all samples unless otherwise noted. ☐ Other:

| | Sample Inf | ormatio | n | | Probe Specs | | | | | | | | Purge & Collection Information | | | | | | |
|----|-------------|---------------|--------------------------|------|------------------------|--------------------------|--------------------|------------------|----------------------|--------------------------|---------------------------|----------------------------------|--------------------------------|-------------------|--------------------------------|-----------------|---------------------------------|--------|--|
| | Point ID | Syringe ID | Sample Volume (cc) | | Probe Depth (ft) | Tubing Length (ft) | Tubing OD (in.) | Sand Ht (in.) | Sand Dia (in.) | Dry Bent. Ht (in.) | Dry Bent. Dia (in.) | Shut In Test 60 sec (✓) | Leak Check (✓) | Purge Vol (mL) | Purge Flow Rate (mL/min) | A second second | Sample Flow Rate (mL/min) | | |
| 1 | SV-14-15 | - | 250 | 1 | 15 | 16 | 1/8 | 12 | 1.5 | 6 | 1.5 | / | / | 723 | 2200 | 3:37 | 6270 | -105+ | |
| 2 | 50-13-15 | | 200 | 1 | 15 | 16 | 1/8 | 12 | 1.5 | 6 | 1.5 | / | 1 | 727 | 1200 | 3:37 | 2200 | -100"t | |
| 3 | 54-12-15 | 205/0 | | | 15 | 16 | 1/8 | 12 | 1.5 | 6 | 1.5 | ~ | / | 723* | 6200 | 3:37° | C200 | 0 | |
| 4 | SV-12-15RGP | 227 | 58 | 0751 | 15 | 16 | 1/8 | 12 | 1.5 | 6 | 1.5 | / | 1 | 773 | 6200 | 1 | C200° | 0 | |
| 5 | 54-11-15 | 719 | 50 | 0805 | 15 | 16 | 1/8 | 12 | 1.5 | 6 | 1.5 | / | / | 723 | 1200 | 7:27 | 200 | -5" | |
| 6 | SV-17-15 | 216 | 50 | 0834 | 15 | 16 | 1/8 | 12 | 1.5 | 6 | 1.5 | / | / | 723 * | 50 | 14:28 | 50 | -80" | |
| 7 | 50-16-15 | 243 | 50 | 0706 | 15 | 16 | 1/8 | 7 | 1.5 | 6 | 1.5 | | / | 727 * | 50 | 14:28 | 50 | -65" | |
| 8 | SV-15-15 | 185 | 50 | 0928 | 15 | (6 | 1/8 | 12 | 1.5 | 6 | 1.T | / | / | 727 | LZOU | 3:27 | 2200 | 0 | |
| 9 | 54-11-5 | 242 | 50 | 0959 | 5 | 6 | 1/8 | 6/6 | 1.5/3.5 | 6/6 | | ~ | / | 3040 | - 4 | | Crow | 0 | |
| 10 | SV-12-5 | 216 | 50 | 1021 | 5 | 6 | 1/8 | 6/6 | 105/3.5 | 6/6 | 115/5.5 | / | 1 | 3040 | COOP TO | 3:02 | 2200 | 0 | |
| 11 | SV-13-5 | 205 | 50 | 1056 | 5 | 6 | 1/8 | 6/6 | 1.5/3.5 | 6/6 | 1.5/3.5 | / | ~ | 3040 | 6000 | 3 202 * | Cros | 6 | |
| 12 | Su - 17 - 5 | 219 | 58 | 1235 | 5 | 6 | 1/8 | 6/6 | 1.5/35 | 6/6 | 1.5/3.5 | / | / | 3040 | 1000 | 3:02 | 2200 | 0 | |

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

Line 1: no sample / high vac. / tried 200,400,450 cc/min & no dissipation

Line 1: " "



FMS004 Revision: 3

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Revised: 1/15/2016 Effective: 1/25/2016

Log Sheet: Soil Vapor Sampling with Syringe

| H&P Project #: | 57051916-531 | Date: | 5-19-16 | |
|-----------------------|--------------------------------|--------------|---|---------------|
| Site Address: | 1515 W-178th St. Gardena | Page: | 2 of 2 | |
| Consultant: | Stantec | H&P Rep(s): | C. Smith, T. Taylor | Reviewed: |
| Consultant Rep(s): | Matt | | , , | Scanned: |
| Equipment Info | Purge Volume Informa | ation | Leak Check Compound | 1,1-DFA |
| Inline Gauge ID#: № 4 | PV Amount: 3 pv PV Includes: 2 | Tubing | A cloth saturated with LCC is placed around | □ 1,1,1,2-TFA |
| Pump ID#: 006 | Ď. | Sand 40% | tubing connections and probe seal. This is done | □ IPA |
| | ď | Dry Bent 50% | for all samples unless otherwise noted. | ☐ Other: |

| F | Sample In | nformatio | n | | Probe Specs | | | | | | Purge & Collection Information | | | | | | | |
|----|-----------|---------------|--------------------------|----------------|------------------------|--------------------------|--------|------------------|----------------------|--------------------------|--------------------------------|----------------------------------|----------------------|-------------------|--------------------------------|---------------------------|---------------------------------|-----|
| | Point ID | Syringe ID | Sample Volume (cc) | Sample Time | Probe Depth (ft) | Tubing Length (ft) | rubing | Sand Ht (in.) | Sand Dia (in.) | Dry Bent. Ht (in.) | Dry Bent. Dia (in.) | Shut In Test 60 sec (✓) | Leak Check (✓) | Purge Vol (mL) | Purge Flow Rate (mL/min) | Pump Time (min:sec) | Sample Flow Rate (mL/min) | |
| 1 | 50-14-5 | 227 | 50 | 1306 | 5 | 6 | 1/8 | 6/6 | 1.5/3.5 | 6/6 | 1.5/5 | / | / | 3040 | 4 | 3:02 | 400 | 0 |
| 2 | SV-16-5 | 207 | 50 | 1331 | 5 | 6 | 1/8 | 6/6 | 1.5/3.5 | 6/6 | 1.5/35 | | / | 3040 | 1000 | 3:02 | 200 | 0 |
| 3 | SV-15 - 5 | 243 | 50 | 1406 | 5 | 6 | 1/8 | | 1.5/3.5 | 6/6 | 1.5/3.5 | | / | 3040 | 1000 | 3:02 | Crao | -10 |
| 4 | | | | | | Œ | | | | | | | | | | | | |
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| 6 | | | | | | | | | | | | | | | | | | |
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| 8 | y and the | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | 3 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | , | |
| 12 | | | | | | | | | | | | | | | | | | |

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):