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REMEDIAL INVESTIGATION AND SOIL VAPOR  
EXTRACTION SYSTEM INSTALLATION REPORT

The Nugget Mall – Annex Building  
2092 Jordan Ave  
Juneau, Alaska

December 2016



**Remedial Investigation and Soil Vapor Extraction  
System Installation Report**

**The Nugget Mall – Annex Building  
2092 Jordan Ave  
Juneau, Alaska**

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## 1 INTRODUCTION

Environmental Resource Group (ERG) has prepared this Remedial Investigation and Soil Vapor Extraction (SVE) System Installation Report on behalf of Resource Transition Consultants, LLC (Client) for the annex building at 2092 Jordan Ave Juneau AK (Site) (Figure 1). This report was prepared pursuant to the *September 2016 Remedial Investigation Work Plan*, *October 2016 Soil Vapor Extraction Remediation Work Plan*, and Alaska Department of Environmental Conservation's (ADEC) September 29 and October 21, 2016 approval letters.

The Report describes the investigation conducted to characterize site conditions and assess risk to human health and the environment in order to develop the appropriate remedial design. In addition, the Report describes the installation of a SVE system that will be used to remediate soil vapor underlying the Site and Nugget Mall.

## 2 BACKGROUND AND SITE HISTORY

The Site is located at 2092 Jordan Avenue annex building of the Nugget Mall, 8745 Glacier Highway, Juneau Alaska (Figure 1). The Site is bounded by Glacier Highway to the north, Jordan Avenue to the west, Mallard Street to the south and the main building of the Nugget Mall to the east (Figure 2). The annex building is divided into four separate suites, 550, 580, 585, and 595 and sits on a foundation that is estimated to extend to approximately 5.5 feet below ground surface (bgs). A sewer lateral runs underneath the annex building from the north to the south and the surrounding area is capped with concrete or asphalt. Capital City Cleaners operated in Suite 595 beginning in 1985 and ceased operations prior to 2003 (Nortech 2016). Associated Credit Agency currently occupies Suite 595.

Previous investigations (Figure 3) revealed that the native soils at the Site consist of alluvial deposits of silty sand and gravel from the nearby Mendenhall River. Groundwater is not a current source of drinking water as the area surrounding the Site is serviced by the municipal water system. Surface water is prevalent in the area and includes Jordan Creek, Mendenhall River, and the Mendenhall Wetlands, all within one mile of the Site (Nortech 2016). Groundwater at the Site is present at an average depth of 7 to 10 feet below grade. Based on measurements from September 2016, the overall ground water gradient direction is towards the southeast. (Figure 4)

In 2003, Smith, Bayliss, LeResche (SBL) collected samples of the building's interior concrete floor. Laboratory analysis of the samples showed concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) above ADEC Method II cleanup levels for migration to groundwater, but did not exceed ADEC Method II human health exposure cleanup level.

In 2004, SBL advanced three borings to the east, south, and west of the building. Soil samples were screened with field test kits for chlorinated solvents. None of the soil samples revealed

positive readings, however the field test kits were limited to concentrations above 50ppm. A saturated soil sample was collected from 5 to 7 feet below ground surface from each of the borings and were submitted to a laboratory for analysis. PCE was detected in one sample collected to the east of the building, closest to the former dry cleaning equipment. Ground water could not be collected at the time of sampling (SBL 2004).

In early 2016, Partner Engineering (Partner) collected three sub-slab soil vapor samples from beneath suite 595, which contained the former dry cleaning business. The samples were collected adjacent to the former dry cleaning machine and the sewer lateral servicing that same suite. All three samples revealed concentrations of PCE, TCE, and/or cis-1,2-dichloroethylene (cis-1,2-DCE) above ADEC target levels for the protection of indoor air within commercial properties.

In May 2016, Nortech advanced six borings at the Site to the east, south, and west of the building and converted three borings to ground water monitor wells. Chlorinated solvents were detected in ground water samples and TCE and cis-1,2-DCE were detected above ADEC's target levels for human health via direct exposure. Vinyl chloride was detected at an estimated concentration below ADEC's target level. One soil sample, collected from 6 to 10 feet bgs near the former dry cleaning machine, revealed a concentration of PCE, however it is below the current ADEC cleanup levels for migration to ground water.

### 3 SITE INVESTIGATION

In October 2016, a licensed drilling contractor was mobilized to the Site with a drilling rig to advance 23 vertical borings to assist with the collection of soil, ground water, and/or soil vapor samples. Indoor air samples were collected from each of the suites in the annex building over a 24-hour time period. In addition, six sub-slab vapor points were installed using a rotary hammer and a Vaporpin™. Boring and sampling locations are shown on Figure 5. The rationale for the boring locations and soil vapor wells installed are:

Location ID	Rationale	Soil	Soil Vapor	GW
C1/SV1	Near former dry cleaning machine	x	x	
C2/SV2	Near sewer cleanout, high PID readings in MW-2, lateral extent	x	x	
C3/SV3	Near sewer trench, lateral extent	x	x	x
C4/SV4	Lateral extent, ADEC Request	x	x	x
C5/SV5	Near utility trench, lateral extent	x	x	x
C6/SV6	Near utility trench, lateral extent	x	x	x
C7	Lateral extent	x		x
SV7	Risk assessment for Nugget Mall for indoor air		x	
C8	Lateral extent			x
SV8	Risk assessment for Nugget Mall for indoor air		x	
C9	Lateral extent			x
SV9	Risk assessment for Nugget Mall for indoor air		x	



Location ID	Rationale	Soil	Soil Vapor	GW
SV10	Risk assessment for Nugget Mall for indoor air		x	
SV11	Risk assessment for bank building for indoor air		x	
SS1	Risk assessment for annex building for indoor air		x	
SS2	Risk assessment for annex building for indoor air		x	
SS3	Risk assessment for annex building for indoor air		x	
SS4	Risk assessment for Nugget Mall for indoor air		x	
SS5	Risk assessment for Nugget Mall for indoor air		x	
SS6	Risk assessment for Nugget Mall for indoor air		x	
SS7	Risk assessment for annex building for indoor air		x	
SS8	Risk assessment for annex building/Assessment of SVE System		x	
SS9	Risk assessment for Nugget Mall for indoor air/Lateral Extent		x	
SS10	Risk assessment for Nugget Mall for indoor air/Lateral Extent		x	
SS11	Risk assessment for Nugget Mall for indoor air/Lateral Extent		x	
SS12	Risk assessment for Nugget Mall for indoor air/Lateral Extent		x	
SS13	Risk assessment for Nugget Mall for indoor air/Lateral Extent		x	
T1	Diesel Underground Storage Tank	x		x
T1B	Diesel Underground Storage Tank	x		
T2	Leaking piping from AST observed near exposed ground	x		

Locations were marked and Alaska Dig Line and Juneau Utility Council were notified 48 hours before any drilling commenced. In addition, a private subsurface utility locator cleared the area of the proposed boring locations and marked underground utilities including the sewer lateral under the annex building.

### 3.1 Soil and Grab Ground Water Sample Collection

Soil samples were collected from boreholes advanced using a hollow stem auger, equipped with an 18" long split spoon sample barrel. The split spoon sample barrel was advanced either continuously or at 1.5 foot intervals at 2.5, 4, 9, and 14 feet bgs. Soil in each boring was logged and classified during drilling operations per the Unified Soil Classification System (USCS). A photo-ionization detector (PID) was also used to screen the soil for volatile organic compounds (VOCs). Lithologic logs of the soil borings are included as Appendix A.

Soil sample depths were selected based on field observations such as PID readings, odors, as well as lithological or color changes. Soil samples were collected into EPA Method 5035 compliant Terracore sampling containers. Following drilling and sample collection, each boring location was backfilled with the soil cuttings from the drilling and patched with cold asphalt. Drilling and sampling was performed under the supervision of a California Professional Geologist.

Grab ground water samples were collected from eight borings within new polyvinyl chloride (PVC) screen installed in the borehole using clean dedicated tubing with a peristaltic pump into laboratory provided VOA vials.



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Following collection, the grab ground water and soil samples were labeled and transferred to a pre-chilled insulated container. All samples were transported by FedEx to Sunstar Laboratories, Inc. for analysis of chlorinated VOCs (CVOCs) by EPA method 8260B.

### 3.2 Soil Vapor Collection

To evaluate the potential risk to indoor air, eleven soil vapor wells were installed in the vicinity of the annex building and Nugget Mall. Each soil vapor well was installed by an Alaska licensed drilling contractor at locations shown on Figure 5 at a depth of 4 feet bgs in a 3-inch diameter boring and consists of a ¼" vapor sampling screen in the bottom of the boring. A quarter-inch of sand was placed at the bottom of the boring to ensure that the screen was not in direct contact with native soil. The screen was installed with attached tubing surrounded by a 12-inch filter pack. 12 inches of dry granular bentonite was placed on top of the filter pack to prevent moisture and ambient air entering from above. Hydrated bentonite was used to fill the rest of the boring to ground surface. Each soil vapor well was sealed and secured with a traffic-rated monitor well box. To allow the subsurface to equilibrate back to representative conditions, the sampling of soil vapor with a leak test was conducted at least one hour after installation. Samples were analyzed by Sunstar Laboratories, Inc. for VOCs by EPA method TO-15 or TO-14.

### 3.3 Sub-Slab Sampling

To evaluate the potential risk to indoor air, three sub-slab points were installed in the annex building in October 2016 and two in December 2016. In November 2016, three sub-slab points were installed in the Nugget Mall and in December 2016 an additional five sub-slab points were installed. Each sub-slab soil vapor sampling point consisted of a VaporPin™ hammered into a 5/8-inch diameter hole drilled through the concrete slab of the annex building using a rotary hammer drill. SS1 through SS6 were installed to approximately 5 inches below the concrete slab. SS7 to SS13 were installed to approximately 1.75 feet below the concrete slab. Sub-slab samples were collected at least one hour after installation through clean tubing attached to the pin and the other end was attached to a 1.4L Summa canister. The sub-slab points are protected with a flush-mounted secure cover accessible for future sampling events.

## 4 FINDINGS

This section discusses the environmental conditions encountered in the 2016 investigation. Tables 1 through 5 summarize the 2016 laboratory analytical results, Appendix B contains the laboratory analytical reports, and Appendix C contains the soil vapor sampling field sheets.

### 4.1 Screening Criteria Selection

Concentrations in soil, ground water and soil vapor in Tables 1 through 5 are compared to:

- ADEC Indoor Air Target Levels, Appendix D, Vapor Intrusion Guidance October 2012

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- ADEC Shallow or Subslab Soil Vapor Target Levels, Appendix E, Vapor Intrusion Guidance October 2012
  - ADEC Soil Cleanup Levels, Method II, Migration to Groundwater, Table B1, updated October 2016
  - ADEC Soil Cleanup Levels, Method II, Human Health, Table B1, updated October 2016
  - ADEC Groundwater Cleanup Levels Table C, updated October 2016
  - ADEC Target Levels for Groundwater, Commercial, Appendix G in Vapor Intrusion Guidance, October 2012

## 4.2 Soil Conditions

Twenty-one soil samples were collected from seven borings in order to characterize the extent of CVOCs near the former dry cleaning machine and from potential preferential pathways associated with the underground utilities. Analytical results are presented in Table 1 and Figure 6. PCE and cis-1,2 DCE were detected in the vadose zone near the former dry cleaning machine (C1), however their concentrations were below their respective ADEC cleanup levels for both migration to ground water and human health outdoor inhalation. Cis-1,2 DCE was detected in two saturated soil samples collected near the sanitary sewer cleanout (C2) and near the water pipeline (C3) leading from the annex building. Both samples were below ADEC's cleanup levels for cis-1,2 DCE. No other CVOCs were detected above the laboratory reporting limits in any other boring.

## 4.3 Ground Water Conditions

Ground water was sampled from the three monitor wells located at the Site and from seven borings advanced as part of this 2016 investigation. Analytical results are presented in Table 2 and Figure 6. MW-1 is the only monitor well that revealed concentrations of TCE, cis-1,2 DCE, and trans-1,2 DCE. cis-1,2 DCE was measured above the ADEC cleanup level for human health of 36 µg/L.

Cis-1,2 DCE, trans-1,2 DCE, and vinyl chloride were detected near the water pipeline in boring C3. Vinyl chloride and cis-1,2 DCE were detected above their respective cleanup levels for human health, and trans-1,2 DCE was detected below its cleanup level. Vinyl chloride was detected above the ADEC cleanup level for human health and the ADEC target level for potential risk for vapor intrusion. Cis-1,2 DCE and trans-1,2 DCE were also detected near a utility line of unknown purpose that runs south of the annex building (C5) and cis-1,2 DCE was detected near the southwest corner of the annex building (C7). The concentrations were detected below their respective ADEC cleanup levels.

PCE has not been detected in ground water, however daughter products associated with dechlorination including vinyl chloride are detected along the outer fringes of the plume. Isoconcentration contours for TCE and cis-1,2 DCE are presented in Figure 7. Although ground water gradient is measured to be towards the southeast, contamination appears to be following along a preferential pathway associated with the water pipeline towards the southwest.

#### 4.4 Soil Vapor

Samples from the soil vapor wells were collected from approximately 4 feet bgs and the sub-slab samples were collected from approximately 1" below the concrete slab of each building. Analytical results are presented in Table 3 and isoconcentration contours of concentrations of PCE, TCE, and vinyl chloride in soil vapor are presented in Figures 8 through 10.

##### 4.4.1 Soil Vapor Wells

PCE and TCE were the only VOCs detected in the soil vapor samples collected from the wells.

- PCE was detected in all soil vapor wells with the exception of SV3.
- PCE was detected above its respective commercial ADEC target level of 1,800  $\mu\text{g}/\text{m}^3$  in three of the soil vapor wells (SV7, SV8, and SV9).
- TCE was detected in six soil vapor wells, but was measured above the ADEC target level of 88  $\mu\text{g}/\text{m}^3$  in only SV7.
- However, the laboratory reporting limit for TCE for SV9 is 270  $\mu\text{g}/\text{m}^3$  and therefore, it is possible that TCE exceeds the ADEC target level in SV9 as well.

As shown in Figures 8 and 9, the distribution of PCE and TCE in soil vapor is towards the Nugget Mall and does not appear to follow the same distribution as contamination in ground water.

##### 4.4.2 Sub-Slab Sampling

- PCE was detected in all sub-slab points, but was only detected above the ADEC target level in SS1 and SS6.
- TCE was detected in five sub-slab points, but was above the target level in only SS5. However, similar to before, the laboratory reporting limit for TCE in SS1, SS4, and SS6 is 270  $\mu\text{g}/\text{m}^3$  due to high concentrations of PCE. Sample dilution was required prior to running samples through lab equipment. Therefore, it is possible that TCE may exceed the ADEC target level in these three sub-slab points as well.
- Cis-1,2 DCE was detected above the ADEC target level of 310  $\mu\text{g}/\text{m}^3$  in the duplicate sample collected at SS6.

- Vinyl chloride was detected above the ADEC target level of 280  $\mu\text{g}/\text{m}^3$  in SS4 and the duplicate sample collected at SS6.
- Cis-1,2 DCE and vinyl chloride were not detected above the laboratory reporting limit in any other sub-slab point.
- Other VOCs were also detected in seven sub-slab points; however, the concentrations were all found to be below their respective ADEC target levels.

As shown in Figures 8 through 10, the distribution of PCE, TCE, and vinyl chloride in soil vapor is towards the Nugget Mall and does not appear to follow the same distribution as contamination in ground water. In addition, similar to ground water, daughter products related to dechlorination are found along the outer margins of the plume. Concentrations above ADEC target levels for each of the constituents appear to not extend beyond the Joann Fabrics in the Nugget Mall.

#### **4.5 Indoor Air Sampling and Analysis**

Indoor air samples were collected in every suite throughout the annex building as well as in two locations in the Nugget Mall (Figure 8). Two sets of samples were collected in suites 595 and 550 due to the size of each of the suites. A duplicate sample was also collected in suite 595. Indoor air samples were collected in the breathing zone, approximately 3 to 5 feet off the ground, in high-use areas away from windows. Tenants were asked to keep all windows closed and to limit door usage to the outside. Sampling devices were set to collect indoor air samples over a 24-hour period.

Two samples were also collected outside to establish background air quality; the canisters were set upwind from the annex building and the Nugget Mall. Temperature, relative humidity, and ambient pressure were measured when the sampling first began and when it ended. All samples were analyzed for VOCs by EPA Method TO-15.

Both the indoor air and the outside air samples revealed no measurable concentrations of CVOCs above the laboratory reporting limit or the method detection limit.

## **5 EVALUATION OF RISK**

This section summarizes the potential risks to ground water as well as indoor air at the annex building and the adjacent Nugget Mall.

### **5.1 Soil**

All constituents detected in soil were found to be below ADEC's cleanup levels for migration to ground water and outdoor inhalation. However, it should be noted that the ADEC cleanup level for migration to ground water for vinyl chloride is 0.8  $\mu\text{g}/\text{kg}$ , which is far below achievable



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laboratory reporting limits for all samples analyzed. However, when compared to the outdoor inhalation cleanup level of 610 µg/kg, the laboratory reporting limits are appropriate and vinyl chloride in soil does not appear to pose a risk to human health for outdoor inhalation. PCE and cis-1,2 DCE were detected in the vadose zone near the former dry cleaning machine (C1) and cis-1,2 DCE was detected in two saturated soil samples collected near the sewer cleanout (C2) and near the water pipeline (C3) leading from the annex building.

It appears that the former dry cleaner operations released PCE to the soil in the vicinity of the former dry cleaning machine. However, the concentrations presently found in vadose soil do not appear to pose a risk for migration to ground water. Concentrations found in saturated soil samples indicate that the release in soil may have followed a preferential pathway along the sewer lateral as well as along the water line utility and migrated to ground water. However, concentrations measured in soil in this investigation do not appear to pose a significant risk to human health or ground water.

## 5.2 Ground Water

The monitor wells were surveyed in October 2016 and the ground water gradient is measured to be towards the southeast. However, contamination appears to be following along a preferential pathway associated with the water pipeline towards the southwest. Cis-1,2 DCE was detected above the ADEC cleanup level for human health in MW-1 near the former dry cleaning machine and in C3, which is near the water line leading from the annex building. Vinyl chloride was also detected in C3 above both the cleanup level for human health as well as the target level for vapor intrusion. At the present time, the Site is capped with asphalt and served by municipal water so it is unlikely that ground water will be used for drinking water. It does not appear that ground water poses a risk to human health via consumption.

C3 is located approximately 40 feet south of the annex building and vinyl chloride was not detected in C2 or C7, which are located much closer to the building. It does not appear that ground water poses a significant risk to indoor air via vapor intrusion (Figure 5).

## 5.3 Soil Vapor

Concentrations of chlorinated solvents in soil vapor exceed ADEC target levels for commercial properties in three soil vapor wells and four sub-slab points. The data indicate that potential risks to indoor air are present within the:

- West side of the Nugget Mall, based on concentrations measured in the soil vapor wells and sub-slab points installed along the western margin and inside of the Nugget Mall.
- Suite 595 in the annex building, based on the concentrations of PCE measure in SS1.



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## 5.4 Indoor Air

Indoor air samples were collected in all four suites in the annex building as well as in two locations in the Nugget Mall (Figure 8). Both the indoor air and the outside air samples did not reveal any concentrations above the laboratory reporting limit or the method detection limit for chlorinated solvents. Benzene, toluene, and m,p-xylene were detected in the indoor air samples collected in the Nugget Mall, however all concentrations are below their respective ADEC target levels. These constituents also are unrelated to the historical dry-cleaning operations at the annex building. Based on these findings, indoor air does not appear to be affected by vapor intrusion from soil vapor.

## 6 DIESEL UNDERGROUND STORAGE TANK

During the Site walk, a diesel underground storage tank (UST) and a dripping aboveground pipe connected to an aboveground storage tank (AST) containing diesel were observed in the eastern portion of the Nugget Mall (Figure 9). Two borings were advanced near the UST (T1 and T1B) and one boring was advanced near the leaking pipe (T2). Soil samples collected at 5 and 10 feet bgs in T1 and T1B and collected at 2.5 and 5 feet bgs in T2 did not reveal concentrations of total petroleum hydrocarbons as diesel (TPHD) above the laboratory reporting limit. A ground water sample was collected from T1 and revealed a concentration of 320 mg/L, which is below the ADEC cleanup level of 1,500 mg/L.

## 7 QUALITY ASSURANCE/QUALITY CONTROL

### 7.1 Field and Laboratory QA/QC Standard Measures

Soil vapor sampling was conducted in accordance with ADEC's 2012 Vapor Intrusion Guidance using a shroud and isopropyl alcohol as a leak check compound. The samples had no detections of isopropyl alcohol and are therefore considered to be representative of the environmental conditions at the Site. A shut-in test was conducted prior to sampling at each location to confirm a tight connection throughout the manifold connecting the sample port to the summa sample canister.

In addition to the shut-in test and the leak check, the following were implemented in the field as a quality control to improve confidence in the measured concentrations:

- One field duplicate was collected for ground water and three field duplicates were collected for soil vapor.
- A field duplicate was collected in Suite 595 for indoor air.
- The sampling and purge rates were maintained between 100 to 200ml per minute for soil vapor sampling.

The laboratory implemented its own internal QA/QC measures including but not limited to method blanks, calibration checks, reporting limit verifications, instrument blanks, and laboratory control samples.

A DEC Laboratory Data Review Checklist was completed to QA/QC the laboratory analytical results and is presented in Appendix D.

#### 7.1.1 Field Duplicates

Field duplicates were collected for ground water, soil vapor, and indoor air in order to evaluate the precision of the overall sample collection methodology and the consistency of environmental conditions through the calculation of the Relative Percent Difference (RPD) for duplicate pairs. Indoor air did not reveal any concentrations so a RPD could not be calculated.

##### Ground Water

A duplicate sample for ground water was collected from C3 and the RPDs for cis-1,2 DCE and vinyl chloride were calculated as follows:

cis-1,2 DCE:  $\{(120-130)/((120+130)/2)\} \times 100\% = -5.41\%$

Vinyl chloride:  $\{(8.9-8.5)/((8.9+8.5)/2)\} \times 100\% = 4.60\%$

The RPDs were less than 25% for the duplicate pair, which meets QA/QC limits for the RPD per ADEC's Laboratory Data Review Checklist. This reveals that the ground water samples were of acceptable quality and that subsurface conditions are represented in the samples.

##### Soil Vapor

Duplicate samples for soil vapor were collected from SV9, SS2, SS6, and SS8. The RPDs for PCE in each duplicate pair were calculated as follows:

SV9:  $\{(2900-2600)/((2900+2600)/2)\} \times 100\% = 10.91\%$

SS2:  $\{(590-320)/((590+320)/2)\} \times 100\% = 59.34\%$

SS6:  $\{(2000-1900)/((2000+1900)/2)\} \times 100\% = 5.13\%$

SS8:  $\{(130-130)/((130+130)/2)\} \times 100\% = 0\%$

The RPDs were less than 25% for the duplicate pairs for SV9, SS6, and SS8, which meet QA/QC limits for the RPD per ADEC's Laboratory Data Review Checklist. This reveals that the soil vapor samples were of acceptable quality and that subsurface conditions are represented in these samples. SS2's duplicate pairs had a RPD of 59.34%, which does not meet QA/QC limits. However, due to an elevated reporting limit, the SS2 sample was analyzed using the TO-14 method and the duplicate was analyzed using the TO-15 method. In addition, the SS2 sample was given an estimated concentration for PCE due to the elevated reporting limit. Despite the high RPD and unreliable concentrations, these samples should not be eliminated as they still provide an indication that CVOCs are present in the soil vapor at SS2.



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## 8 DEVIATIONS FROM WORK PLAN

The following are deviations from the *September 2016 Work Plan*:

- Soil vapor wells were installed to 4 feet bgs instead of 5 feet bgs.
- Soil vapor wells in the annex building could not be installed to 4 feet bgs due to the presence of large cobbles (6") under the concrete slab. Refusal was consistently met at 1.5 feet bgs during installation.
- Soil borings were not continuously sampled with the exception of C1.
- Due to limited canisters, only two outdoor air samples were collected instead of three.
- A 2" soil vapor extraction well was not installed due to time constraints.
- Indoor air samples were sampled during both business and non-business hours due to limited access to the suites.

## 9 CONCLUSIONS AND RECOMMENDATIONS

### 9.1 Conclusions

The following conclusions are based on the recent and historical data:

Setting:

- The native geologic materials at the Site consist of alluvial deposits of silty sand, glacial silt, and gravel to a depth of at least 15 feet bgs.
- Groundwater at the Site is present at an average depth of 7 to 10 feet bgs.
- Based on measurements from September 2016, the overall ground water gradient direction is towards the southeast.
- The annex building, immediately west of the Nugget Mall, consists of four suites. The dry-cleaning business, Capital City Cleaners, began operating in Suite 595 and ceased operations prior to 2003.
- Based on construction drawings provided by the client, the perimeter footing foundation of the annex building is estimated to extend to approximately 5.5 feet bgs.
- The Site is capped with asphalt and concrete.

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- The City and Borough of Juneau Water Utility provides drinking water to the local businesses and residents.

#### Environmental Conditions:

- Dry Cleaner
  - The environmental data indicate that the former dry cleaning operation released PCE.
  - Samples of concrete, soil vapor, soil, and ground water in the vicinity of Suite 595 revealed measurable concentrations of PCE and/or its degradation compounds –TCE, DCE, vinyl chloride, which are all types of CVOCs.
- CVOCs in Ground Water
  - Based on the measurements of TCE, DCE, and vinyl chloride in ground water, natural degradation of PCE is occurring at the site.
  - Distribution of CVOCs in ground water extends towards the southwest, coincident with the underground water pipeline and another underground utility of unknown purpose, and cross-gradient to the apparent ground water gradient direction. CVOCs might have migrated along the preferential pathway associated with these underground utilities.
  - Concentrations of CVOCs in ground water are below ADEC cleanup levels at 8 of the 10 locations sampled. Two locations revealed concentrations of vinyl chloride and/or DCE above the ADEC cleanup level for human health and/or indoor air.
    - The Juneau Water Utility supplies drinking water and therefore, there is no apparent direct exposure to ground water.
    - Samples of indoor air reveal no measurable concentrations of CVOCs.
    - Therefore, CVOCs in ground water do not appear to pose a significant risk to human health.
- CVOCs in soil
  - Concentrations are below ADEC cleanup levels and, therefore, do not appear to pose a significant risk to human health or the environment.

- 
- CVOCs in soil vapor
    - Concentrations of CVOCs in soil vapor samples collected from beneath the annex building and Mall slabs (floor) and from shallow soil exceed ADEC's target levels. Therefore, CVOCs in soil vapor may pose a potential risk to indoor air quality.
  - CVOCs in indoor air
    - Seven samples of indoor air were collected from the annex building and two samples of indoor air were collected from the western portion of the Mall, near the annex building.
    - Samples of indoor air collected from within the annex building and Mall revealed no measurable concentrations of CVOCs, and, therefore, indoor air appears to pose no significant risk.

## 9.2 Recommendations

The following recommendations are based on the current understanding of Site conditions:

- CVOCs in soil
  - No additional investigation recommended.
- CVOCs in ground water
  - Collect samples of ground water semi-annually from the three monitor wells.
    - Analyze the samples for CVOCs using EPA Method 8260.
    - At each sampling event, also measure the depth to water, dissolved oxygen, pH, ORC, electrical conductance, and temperature.
  - Perform a survey of wells within 300 yards south of the site to identify possible human receptors of CVOCs in ground water.
- CVOCs in soil vapor
  - Collect additional samples of sub slab samples from beneath the Mall and Annex Building.
- CVOCs in indoor air
  - Collect samples of indoor air in March-April 2017, after ambient temperatures rise and the HVAC system operation changes to summertime patterns.

- Soil vapor extraction (SVE) system
  - Design, install, and operate a SVE system with the objectives to:
    - lower concentrations of CVOCs beneath the concrete slabs of the annex building and Mall.
    - remediate the release of CVOCs from the dry-cleaning operation.
  - The SVE system is described in the next section below.

## 10 SOIL VAPOR EXTRACTION SYSTEM

The *Soil Vapor Extraction Remediation Work Plan* (ERG, October 2016) was developed based on the information described above. ADEC's October 21, 2016 letter approved the soil vapor extraction system as an interim remedial measure (IRM). The system, as installed in November 2016, is described below.

### 10.1 Design Basis

As described above, the site investigation results revealed elevated concentrations of PCE, TCE, and cis-1,2 DCE in both sub-slab soil vapor and soil vapor measured at 4 feet bgs. The data show evidence of a source existing at the property in the vicinity of the former dry cleaning machine underneath the building. The investigation shows elevated CVOC's have migrated towards the southeast corner of the Nugget Mall Building (Figures 6 and 7).

Soil vapor will be extracted from beneath the former location of the dry cleaning equipment in Suite 595, which is considered to be the area of the primary source. Soil vapor will also be extracted from the asphalt covered area between the Annex and the Mall. Figure 10 shows the location of the SVE system.

#### 10.1.1 Soil Vapor Collection System at the Source Area, Suite 595

Inside the annex building suite 595, one SVE well was installed vertically (SVE-595-1) to 2 feet bgs where the former dry-cleaning machine was located. The well consists of a 4-inch schedule 40 PVC with a filter cloth covered cage at the bottom of the PVC. The well was installed in a 6-inch boring drilled through the concrete floor. The screen is covered with filter fabric and surrounded by pea gravel to the bottom of the concrete slab.

Type II Portland Cement with about 5% bentonite was mixed and placed around the pipe to both rebuild the slab and seal the well from the subsurface. Solid 2-inch PVC piping then extends above the floor and continues through the building wall into the SVE treatment system container, located in the alleyway next to the annex building.

---

### 10.1.2 Soil Vapor Collection System in Alley Between Annex and Mall

The SVE collection piping in alley was installed in a 3 foot wide by 5 foot deep trench, as shown on Figure 13. In the alley, the pipe installed at 3 feet below grade drops to 5 feet at the 'T' and extends to the west. The pipe installed at 5 feet below grade continues at the 'T' to the east. Heat tracer lines (orange in the photographs) are installed alongside the piping to reduce risk of freeze damage. All piping consists of 4-inch diameter slotted, filter fabric wrapped flexible pipe. The trench was backfilled with native soil, compacted and repaved with asphalt.

### 10.1.3 SVE System

The vapor extraction equipment includes water knockout tanks, an air filter, a 3 hp vacuum blower, and four granulated activated carbon (GAC) canisters connected in series. In addition, the equipment panel, manual flow control valves, sampling ports and sampling pump, and pressure gauges are installed to aid monitoring of the system.

The ports are installed to enable sampling at the influent, inter-GAC canister, and effluent locations of the abatement unit for purposes of monitoring the treatment process. A schematic of the vapor extraction system is presented in Figure 11. The system is designed to operate twenty-four (24) hours per day, seven (7) days per week with a security system on-line for the treatment unit.

Specification of some of the vapor extraction equipment are:

- Ports: Three extraction ports with vacuum and pressure gauges, and manual control valves;
- Regenerative Blower: 3 hp with up to 113 cfm capacity; Maximum vacuum is 112 inches of water
- Cooling: Building vents;
- Abatement: four GAC canisters, in series;
- Safety: Automatic overheating shut-down, high condensate level knock-out pot, shut down, and alarm.

### 10.1.4 Monitoring

The operations and maintenance manual provides guidance to field operations of the SVE treatment system. The following lists the basic monitoring, sampling, and reporting plan.

- Influent samples of soil vapor will be collected from each of the three inlet pipes and the manifold prior to the GAC:
  - For laboratory analysis by TO15 at start up, biweekly for one month, and then monthly thereafter

- 
- Using a PID to measure concentration in a Tedlar bag by PID at least twice per week
  - Effluent samples of soil vapor will be collected after the first and fourth GAC:
    - For laboratory analysis by TO15 every 4 weeks
    - Using a PID to measure concentration in a Tedlar bag by PID at least once per week
  - Vacuum pressure at the blower, three influent lines, manifold line, all soil vapor wells and sub slab wells will be measured:
    - at start up and then monthly thereafter
  - Vacuum pressure at the blower, three influent lines, manifold line, and soil vapor wells and sub slab wells listed below will be measured:
    - At SV1, SV7, SV8, SV9, SS1, SS2, SS4, SS6
    - At least once per week
  - Perform leak detection with the portable PID at equipment connections under positive pressure, housing perimeter once per week

Based on the above data, the following items will be evaluated and will provide part of the basis for adjusting system operation. Adjustments to system operation will be made to optimize and maximize the extraction of CVOCs in soil vapor.

- Extraction flow rate
- Mass of CVOC extracted
- Mass of CVOC in the influent
- Percent saturation of the GAC, to identify breakthrough from the GAC canisters. Rotation and replacement of GAC canisters will be made to minimize emissions.

#### *10.1.5 Initial SVE System Operation*

The SVE system was operated for approximately two weeks in December and then shut down for 48 hours for the testing of SS8, which is located near SVE-595-1. Concentrations measured in SS8 are approximately 100 times less than concentrations measured in SS1 prior to the startup of the SVE system. Further testing and evaluation of the efficacy of the SVE system is currently being scheduled. It should be noted that SS8 concentrations in Figures 8 through 10 were not used in contouring since it was sampled after the SVE system had operated for two weeks.



---

## 11 REFERENCES

Alaska Department of Environmental Conservation (ADEC, May 2010): *Draft Field Sampling Guidance*.

Alaska Department of Environmental Conservation (ADEC, October 2012): *Vapor Intrusion Guidance for Contaminated Sites*.

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## 12 SIGNATURE PAGE

Please call us at 415-381-6574 if you have questions.

Best Regards,  
*ENVIRONMENTAL RESOURCE GROUP*

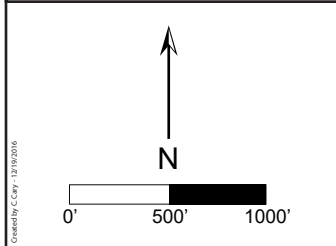


Benjamin Wells  
President, Environmental Scientist, CSL 740879 A,B, HAZ




Steve Michelson  
Technical Lead  
California Professional Geologist

## FIGURES



Site

Vicinity Map



2092 Jordan Ave  
Juneau, AK

Figure 1

Created by C. Cary 12/19/2016

Northrim Bank

C/P

SV11

SV4

Suite 550  
Papa John's

SS3

Suite 580  
Checkmate  
Pawn Shop

SS2

Suite 585  
Chez Alaska  
Cooking School

SS1

Suite 595  
Associated Credit  
Agency, Inc.

MW3

The Nugget Mall

SS9

SS10

SV10

SV9

SS6

SS13

SS11

MW1

SV1

SV8

SS4

SS5

SS12

Loading Area

SV7

Trash Compactor

MW2

SV2

SV3

SV5

SV6

SS

Jordan Ave

Mallard St

Created by C Cary - 12/19/2016



0' 20' 40'

Ground Water Monitor Well  
(installed 5/16)

Soil Vapor Well  
(installed 10/16)

Sub Slab Soil Vapor Well  
(installed 10/16)

Former Dry Cleaning  
Machine (approximate)

Utility Lines

E Electrical

W Water

SS Sanitary Sewer

C/P Cable/Phone

U Utility of Unknown Purpose

Site Map



2092 Jordan Ave  
Juneau, AK

Figure 2

Northrim Bank

C/P

Suite 550  
Papa John's

Suite 580  
Checkmate  
Pawn Shop

Suite 585  
Chez Alaska  
Cooking School

Suite 595  
Associated Credit  
Agency, Inc.

The Nugget Mall

Jordan Ave

MW3/BH3

B3

SG1

SG3

B1

MW1/BH1

MW2/BH2

B2

BH6

BH5

BH4

Trash Compactor

Loading Area

W

U

SS

Mallard St

Created by C Cary - 12/19/2016



0' 20' 40'

Ground Water Monitor Well (installed 5/2016)

Soil Sample (B1-3: 2004) (BH1-5: 2016)

Grab Soil and Grab Ground Water Sample (2016)

Former Dry Cleaning Machine (approximate)

Sub Slab, Grab Soil Gas Sample (2015)

Concrete Sample (2003)

**Utility Lines**

E Electrical


W Water

SS Sanitary Sewer

C/P Cable/Phone

U Utility of Unknown Purpose

**Previous Sample Locations**



2092 Jordan Ave  
Juneau, AK

Figure 3

Northrim Bank

C/P

Suite 550  
Papa John's

Suite 580  
Checkmate  
Pawn Shop

Suite 585  
Chez Alaska  
Cooking School

Suite 595  
Associated Credit  
Agency, Inc.

The Nugget Mall

Groundwater  
Gradient: 0.019 ft/ft

MW3  
19.50

MW1  
18.00

MW2  
18.35

19.0

18.5

Trash Compactor

Loading Area

Jordan Ave

Mallard St

Created by C Cary - 12/19/2016



0' 20' 40'

Ground Water Elevation (NAVD88)

Ground Water Monitor Well (installed 5/16)

Former Dry Cleaning Machine (approximate)

Utility Lines

Electrical

Water

Sanitary Sewer

Cable/Phone

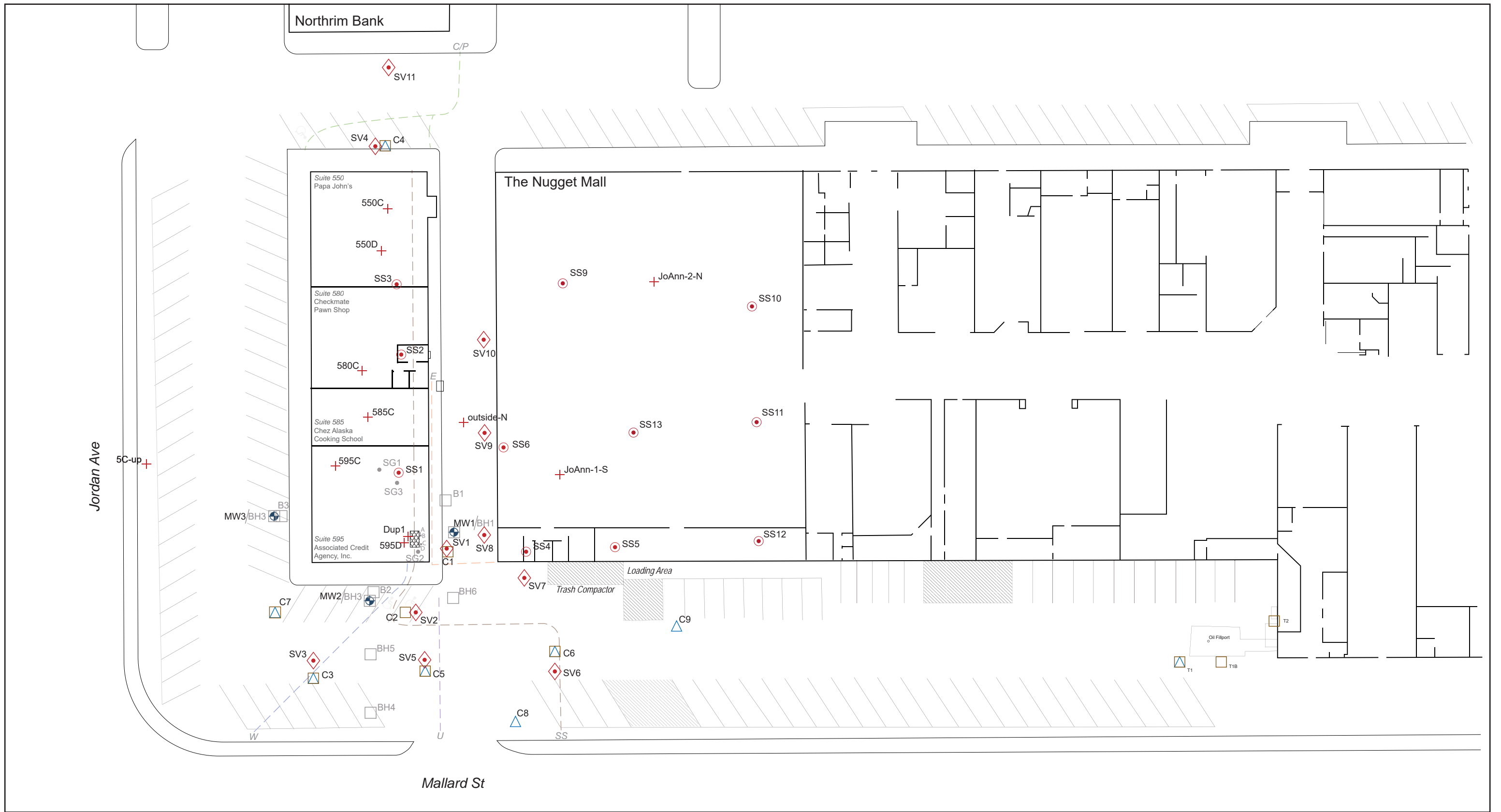
Utility of Unknown Purpose

Ground Water  
Gradient



2092 Jordan Ave  
Juneau, AK

Figure 4



<p>Created by C Cary - 12/19/2016</p>	Ground Water Monitor Well (installed 5/2016)	Sub Slab Soil Vapor Well (8" bgs) (SS 1-6 installed 10/2016; SS7-13 installed 12/2016)	Former Dry Cleaning Machine (approximate)	Concrete Sample (2003)
	Soil Vapor Well (4' bgs) (installed 10/2016)	Grab Groundwater Sample (10/2016)	Soil Sample (B1-3: 2004) (BH1-5: 2016)	Grab Soil and Grab Ground Water Sample (2016)
	Air Sample (24 hour) (10/2016)	Grab Soil Sample (10/2016)	Sub Slab, Grab Soil Gas Sample (2015)	<p style="text-align: center;"><b>Sample Locations</b></p>
				<p>2092 Jordan Ave Juneau, AK</p>

Figure 5



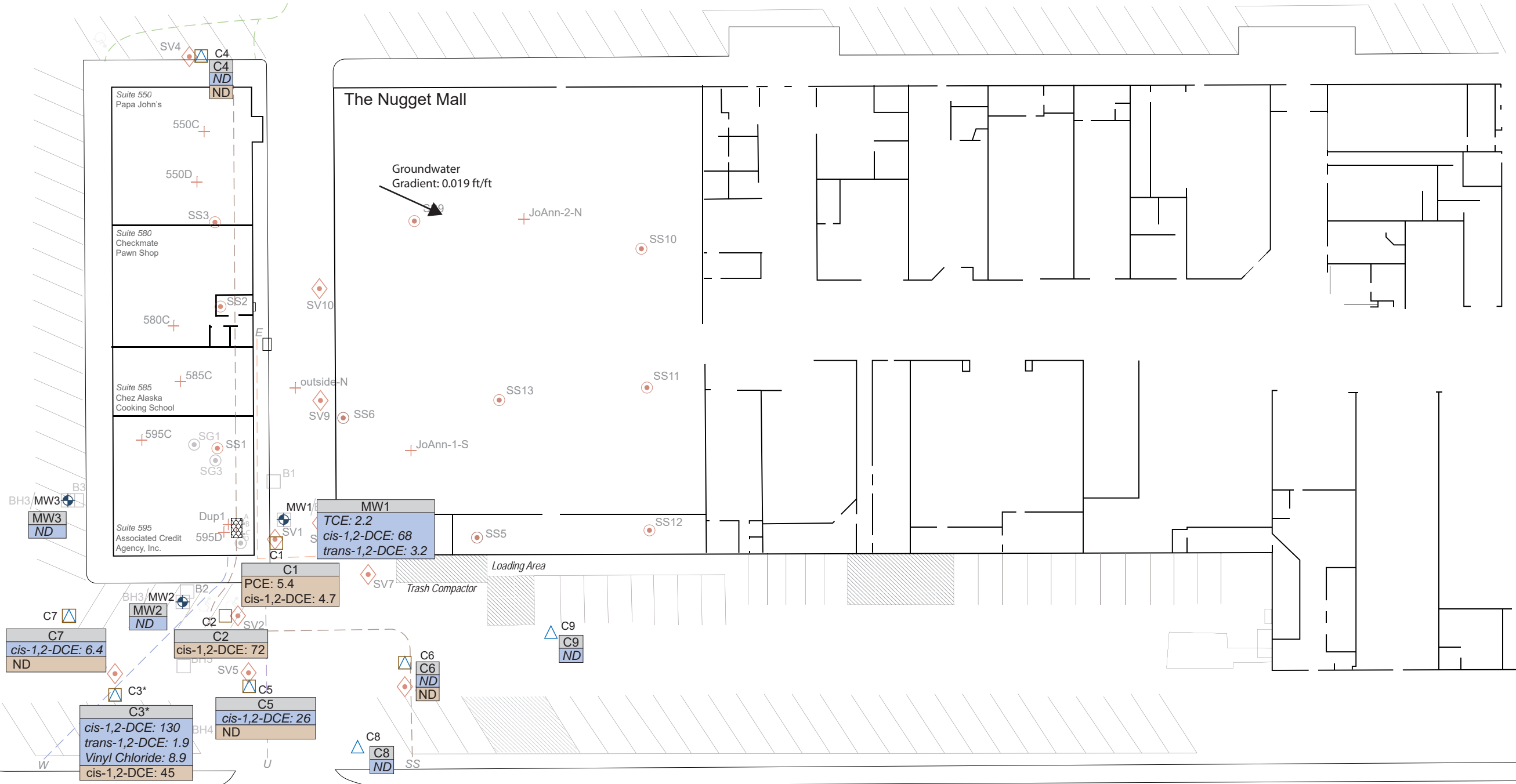
Northrim Bank

The Nugget Mall

Jordan Ave

Mallard St

Groundwater Gradient: 0.019 ft/ft



Well/Boring ID	Water (µg/L)	Soil (µg/kg)
MW1	TCE: 2.2 cis-1,2-DCE: 68 trans-1,2-DCE: 3.2	
C1		PCE: 5.4 cis-1,2-DCE: 4.7
MW2	ND	
C2		cis-1,2-DCE: 72
C7		cis-1,2-DCE: 6.4 ND
C3*		cis-1,2-DCE: 130 trans-1,2-DCE: 1.9 Vinyl Chloride: 8.9 cis-1,2-DCE: 45
C5		cis-1,2-DCE: 26 ND
C6		ND
C8		ND
C9		ND

**Notes:**

- \*: where 2 samples were analyzed, the higher value was used
- to see Soil Cleanup Levels refer to Table 1
- to see Groundwater Cleanup Levels refer to Table 2
- ND = Chlorinated Solvents were not detected above laboratory reporting limit

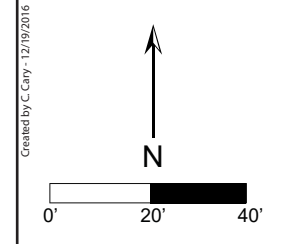
- |                                   |   |  |   |
|-----------------------------------|---|--|---|
| Well/Boring ID                    | Grab Soil and Grab Ground Water Sample (2016) | Soil Sample (B1-3: 2004) (BH1-5: 2016) | Soil Vapor Well (4' bgs) (installed 10/2016)  |
| Water (µg/L)                      | Ground Water Monitor Well (installed 5/2016)  | Sub Slab, Grab Soil Gas Sample (2015)  | Air Sample (24 hour) (10/2016)  |
| Soil (µg/kg)                      | Former Dry Cleaning Machine (approximate)     | Concrete Sample (2003)                 | Sub Slab Soil Vapor Well (8" bgs) (SS1-6 installed 10/2016; SS7-13 installed 12/2016) |
| Grab Soil Sample (10/2016)        |   |  |   |
| Grab Groundwater Sample (10/2016) |   |  |   |

- Utility Lines**
- Electrical
  - Water
  - Sanitary Sewer
  - Cable/Phone
  - Utility of Unknown Purpose

**Ground Water and Soil Analytical Results**  
Collected October 5-7, 2016

2092 Jordan Ave  
Juneau, AK

Figure 6



Created by C Cary - 12/16/2016

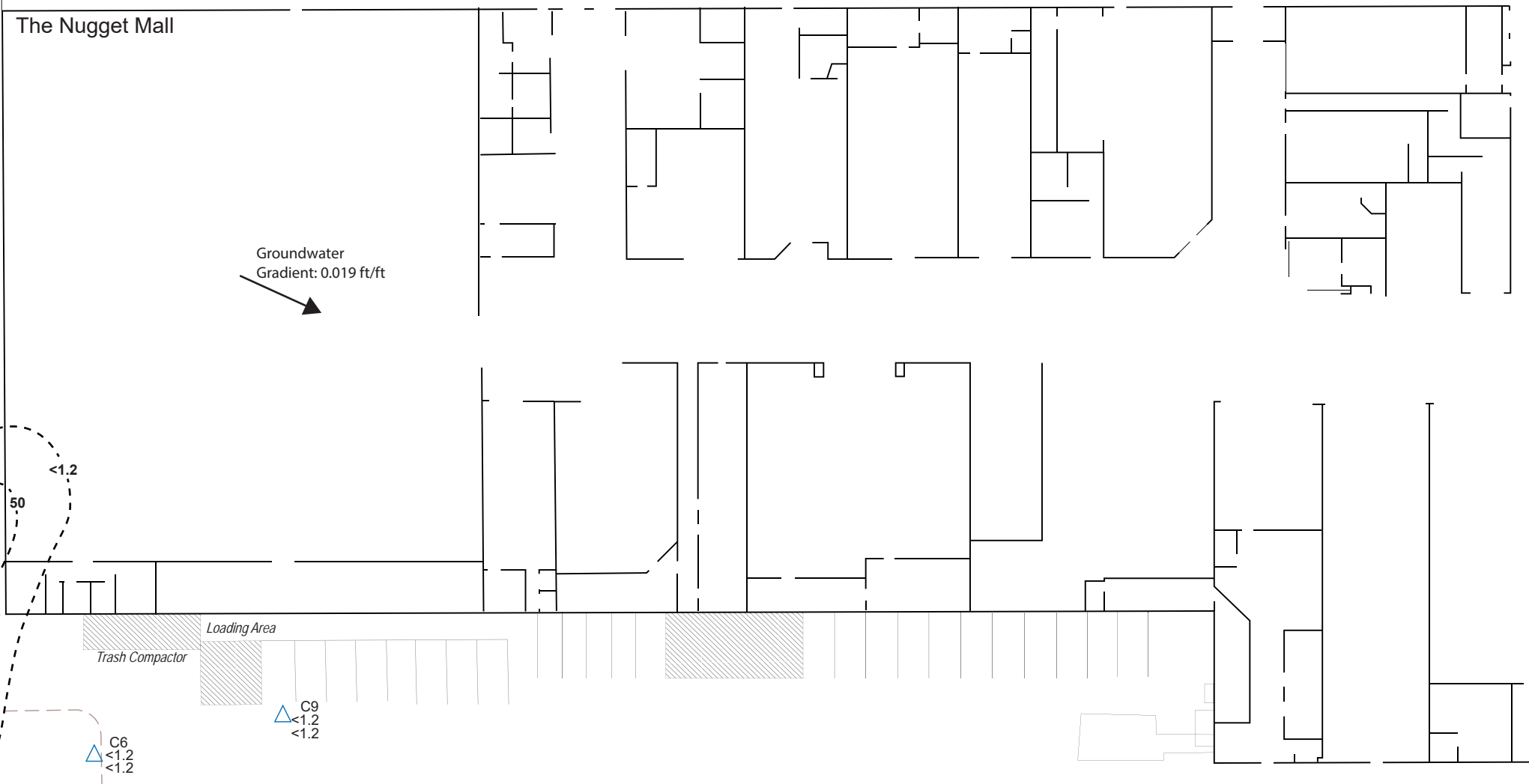
Northrim Bank  
C/P

Suite 550  
Papa John's

Suite 580  
Checkmate  
Pawn Shop

Suite 585  
Chez Alaska  
Cooking School

Suite 595  
Associated Credit  
Agency, Inc.



Groundwater  
Gradient: 0.019 ft/ft

Jordan Ave

Mallard St

MW3  
<1.2  
<1.2

MW1  
2.2  
68  
<1.2

MW2  
<1.2  
<1.2

C7  
<1.2  
6.4

C3  
<1.2  
130

C5  
<1.2  
26

C6  
<1.2  
<1.2

C9  
<1.2  
<1.2

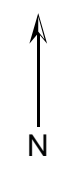
C8  
<1.2  
<1.2

SS

Trash Compactor

Loading Area

Created by C Cary - 12/19/2016



0' 20' 40'

TCE Concentration (µg/L)  
cis-DCE Concentration (µg/L)

TCE Isoconcentration

cis-DCE Isoconcentration

Ground Water Monitor Well (installed 5/2016)

Grab Groundwater Sample (10/2016)

Former Dry Cleaning Machine (approximate)

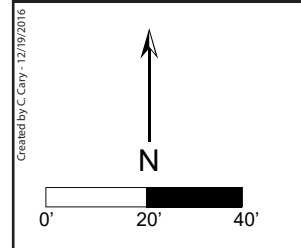
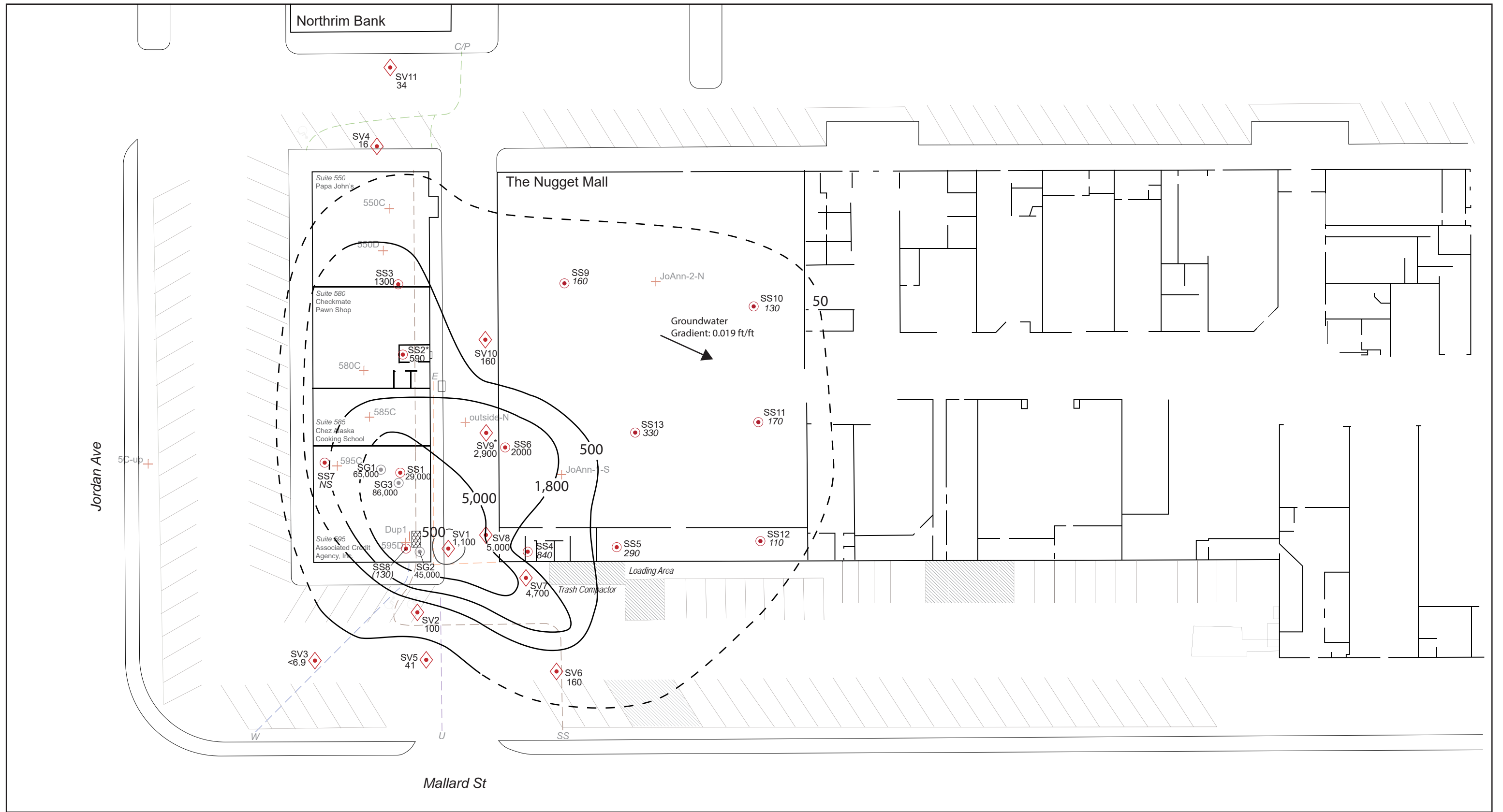
- Utility Lines**
- Electrical
  - Water
  - Sanitary Sewer
  - Cable/Phone
  - Utility of Unknown Purpose

Trichloroethene (TCE) and  
Cis-1,2-Dichloroethene (cis-DCE)  
Isoconcentrations  
Contours in Ground Water



2092 Jordan Ave  
Juneau, AK

Figure 7



**Notes:**  
 (##): Concentration not used, see report.  
 NS: Not sampled  
 \*: where 2 samples were analyzed, the higher value was used  
 ADEC Target Level for shallow soil vapor: 1,800 µg/m³

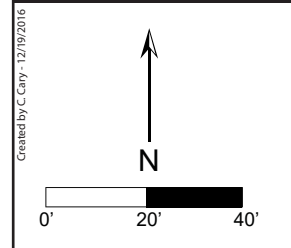
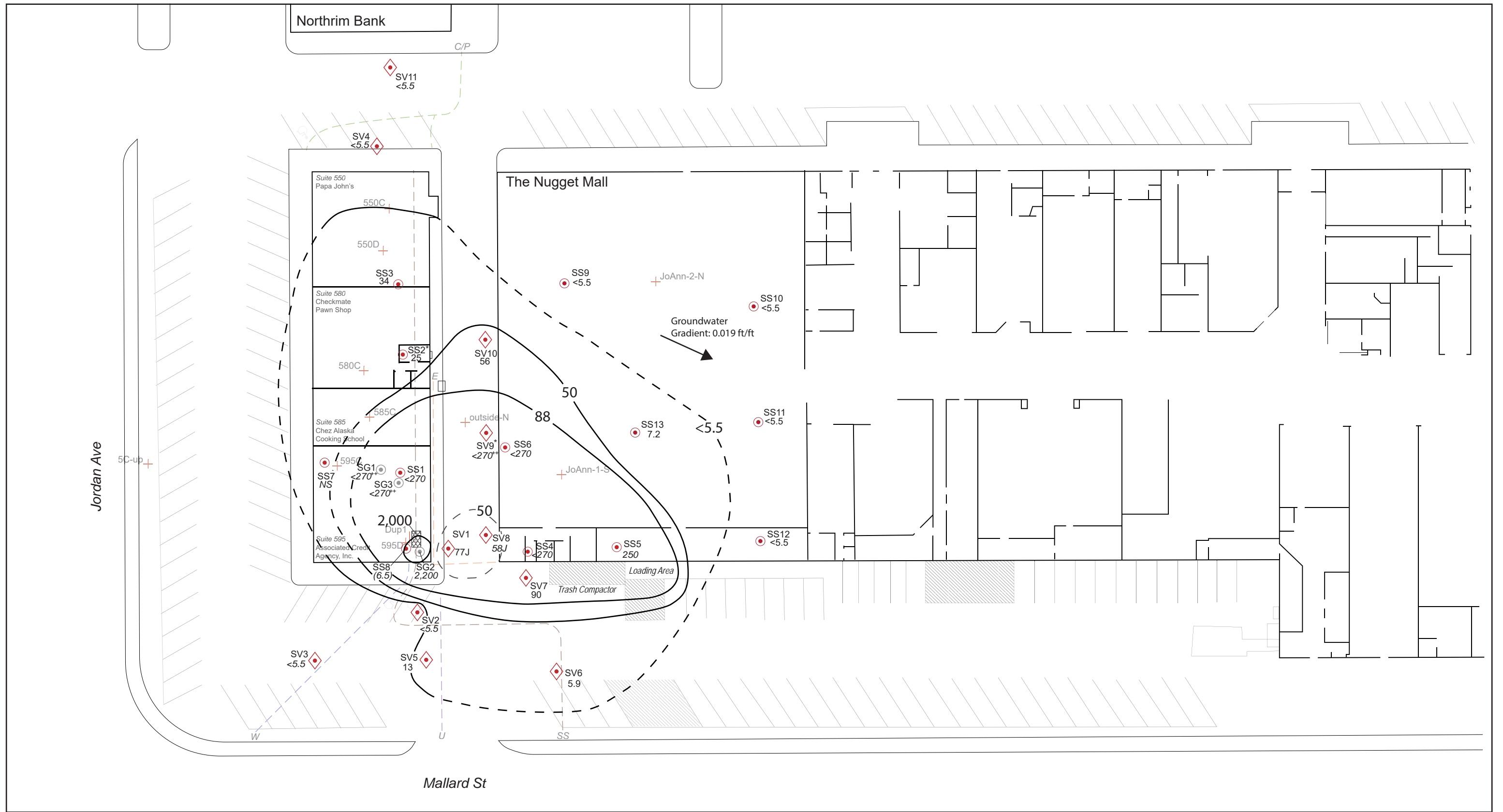
- PCE Concentration (µg/m³)
- PCE Isoconcentrations (dashed where inferred)
- Soil Vapor Well (4' bgs) (installed 10/2016)
- Air Sample (24 hour) (10/2016)
- Sub Slab Soil Vapor Well (8" bgs) (SS1-6 installed/sampled 10/2016; SS7-13 installed/sampled 12/2016)
- Sub Slab Grab Soil Vapor Sample (2015)
- Former Dry Cleaning Machine (approximate)

- Utility Lines**
- Electrical
  - Water
  - Sanitary Sewer
  - Cable/Phone
  - Utility of Unknown Purpose

**Tetrachloroethene (PCE)  
Isoconcentrations Contours  
in Soil Vapor**

2092 Jordan Ave  
Juneau, AK

Figure 8




**Notes:**  
 (##): Concentration not used, see report.  
 NS: Not sampled  
 \*: Where 2 samples were analyzed, the higher value was used  
 ++: Elevated reporting limit due to high concentrations of PCE  
 J: Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration.  
 ADEC Target Level for shallow soil vapor: 88µg/m³

- SV# TCE Concentration (µg/m)
- TCE Isoconcentrations (dashed where inferred)
- ◇ Soil Vapor Well (4' bgs) (installed 10/2016)
- + Air Sample (24 hour) (10/2016)

- Sub Slab Soil Vapor Well (8" bgs) (SS1-6 installed/sampled 10/2016; SS7-13 installed/sampled 12/2016)
- Sub Slab Grab Soil Vapor Sample (2015)
- ▣ Former Dry Cleaning Machine (approximate)

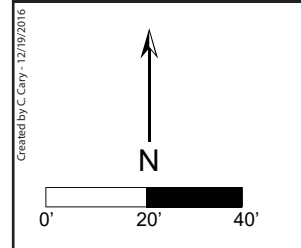
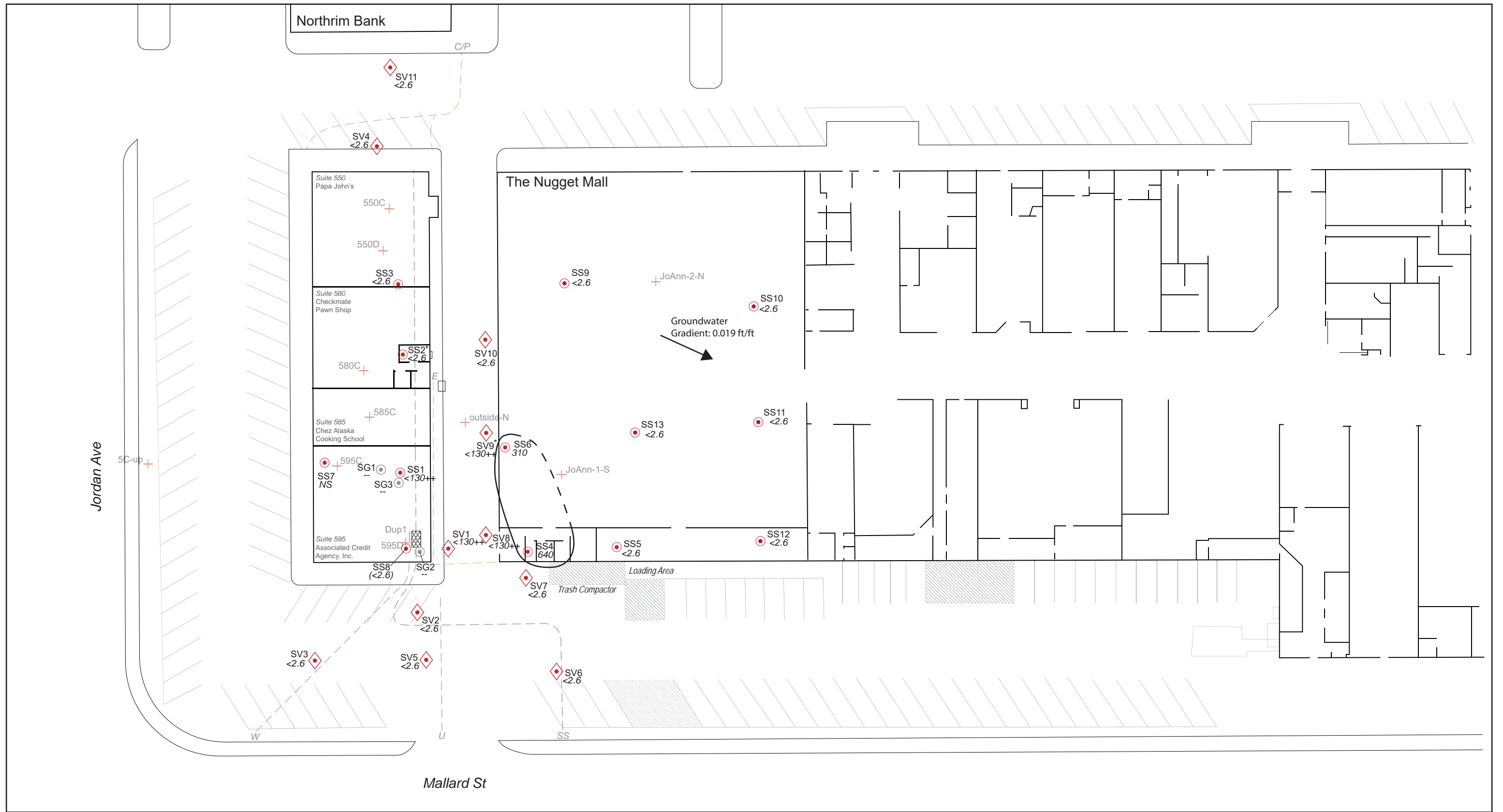
- Utility Lines**
- E Electrical
  - W Water
  - SS Sanitary Sewer
  - C/P Cable/Phone
  - U Utility of Unknown Purpose

**Trichloroethene (TCE)  
 Isoconcentrations Contours  
 in Soil Vapor**



2092 Jordan Ave  
 Juneau, AK

Figure 9



**Notes:**  
 (##): Concentration not used, see report.  
 \*: where 2 samples were analyzed, the higher value was used  
 ++: Elevated reporting limit due to high concentrations of PCE  
 J: Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration. 3  
 ADEC Target Level for shallow soil vapor: 280µg/m

VC Concentration (µg/m<sup>3</sup>)  
 VC Isoconcentrations (dashed where inferred)  
 Soil Vapor Well (4' bgs) (installed 10/2016)  
 Air Sample (24 hour) (10/2016)

Sub Slab Soil Vapor Well (8" bgs) (SS1-6 installed/sampled 10/2016; SS7-13 installed/sampled 12/2016)  
 Sub Slab Grab Soil Vapor Sample (2015)  
 Former Dry Cleaning Machine (approximate)

**Utility Lines**  
 Electrical  
 Water  
 Sanitary Sewer  
 Cable/Phone  
 Utility of Unknown Purpose

**Vinyl Chloride (VC) Isoconcentrations Contours in Soil Vapor**

2092 Jordan Ave  
Juneau, AK

Figure 10

Northrim Bank

C/P

Suite 550  
Papa John's

550C  
ND

550D  
ND

Suite 580  
Checkmate  
Pawn Shop

580C  
ND

Suite 585  
Chez Alaska  
Cooking School

585C  
ND

595C  
ND

Suite 595  
Associated Credit  
Agency, Inc.

Dup1  
ND

595D  
ND

The Nugget Mall

Groundwater  
Gradient: 0.019 ft/ft

JoAnn-2-N  
ND

JoAnn-1-S  
ND

+outside-N  
ND

+5C-up  
ND

Trash Compactor

Loading Area

Jordan Ave

Mallard St

Created by C Cary - 12/19/2016



0' 20' 40'

Notes:

- ND = Chlorinated Solvents were not detected above laboratory reporting limit

+ Air Sample (24 hour) (10/2016)

Former Dry Cleaning Machine (approximate)

Utility Lines

E Electrical

W Water

SS Sanitary Sewer

C/P Cable/Phone

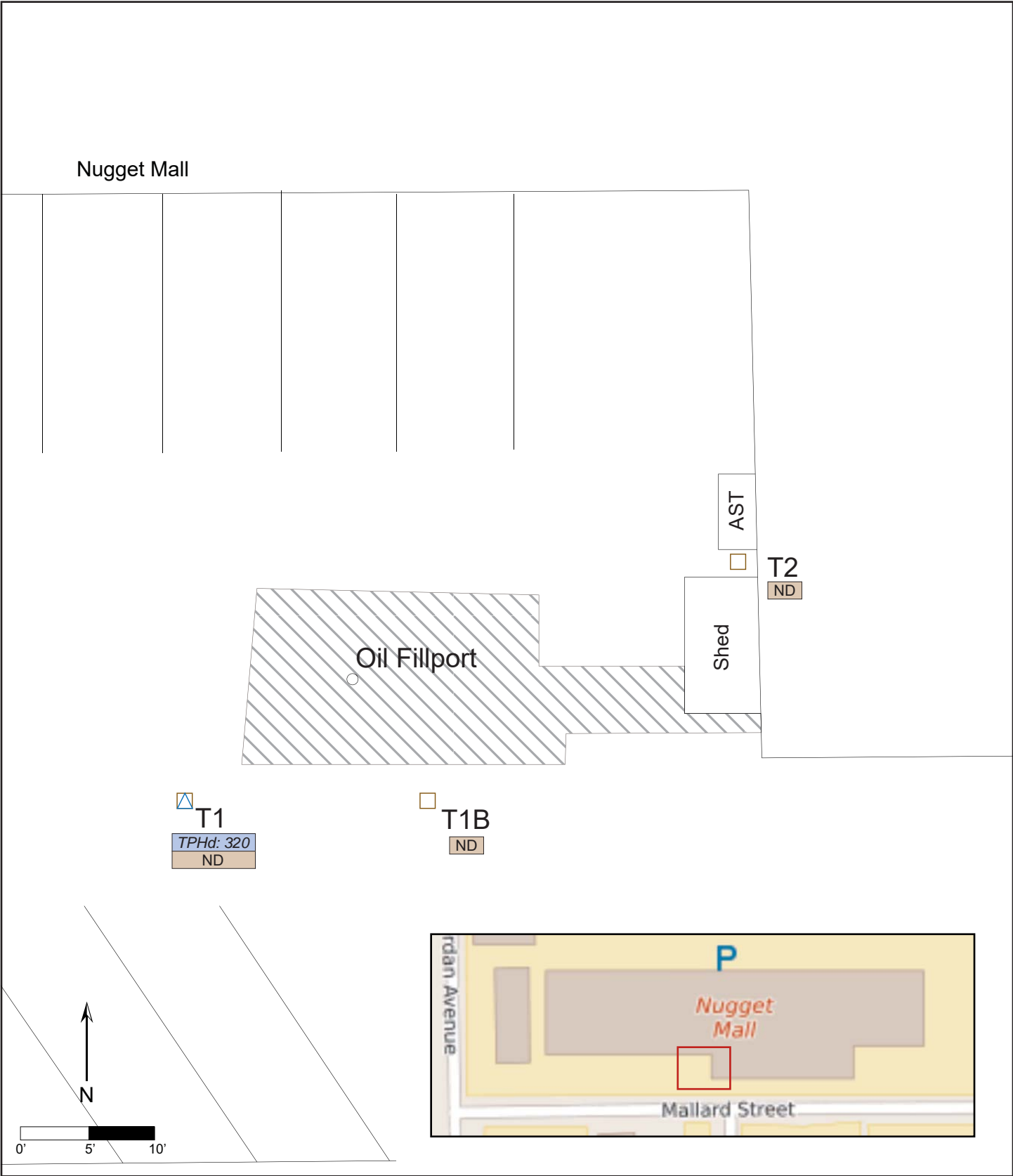
U Utility of Unknown Purpose

Indoor Air  
Sample Locations



2092 Jordan Ave  
Juneau, AK

Figure 11



**Notes:**

- ND = Chlorinated Solvents were not detected above laboratory reporting limit
- Ground Water Cleanup Level for TPHd is 1,500 mg/L per Alaska regulations 18 AAC 75.341; Table C; Oct 2016

**Concentrations**

Water (mg/L)
Soil (mg/kg)

△ Grab Groundwater Sample

□ Grab Soil Sample

▨ Diesel UST Patch

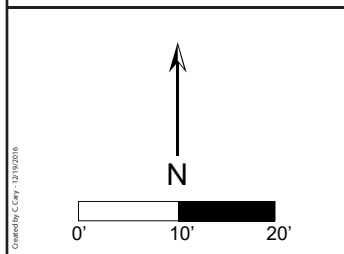
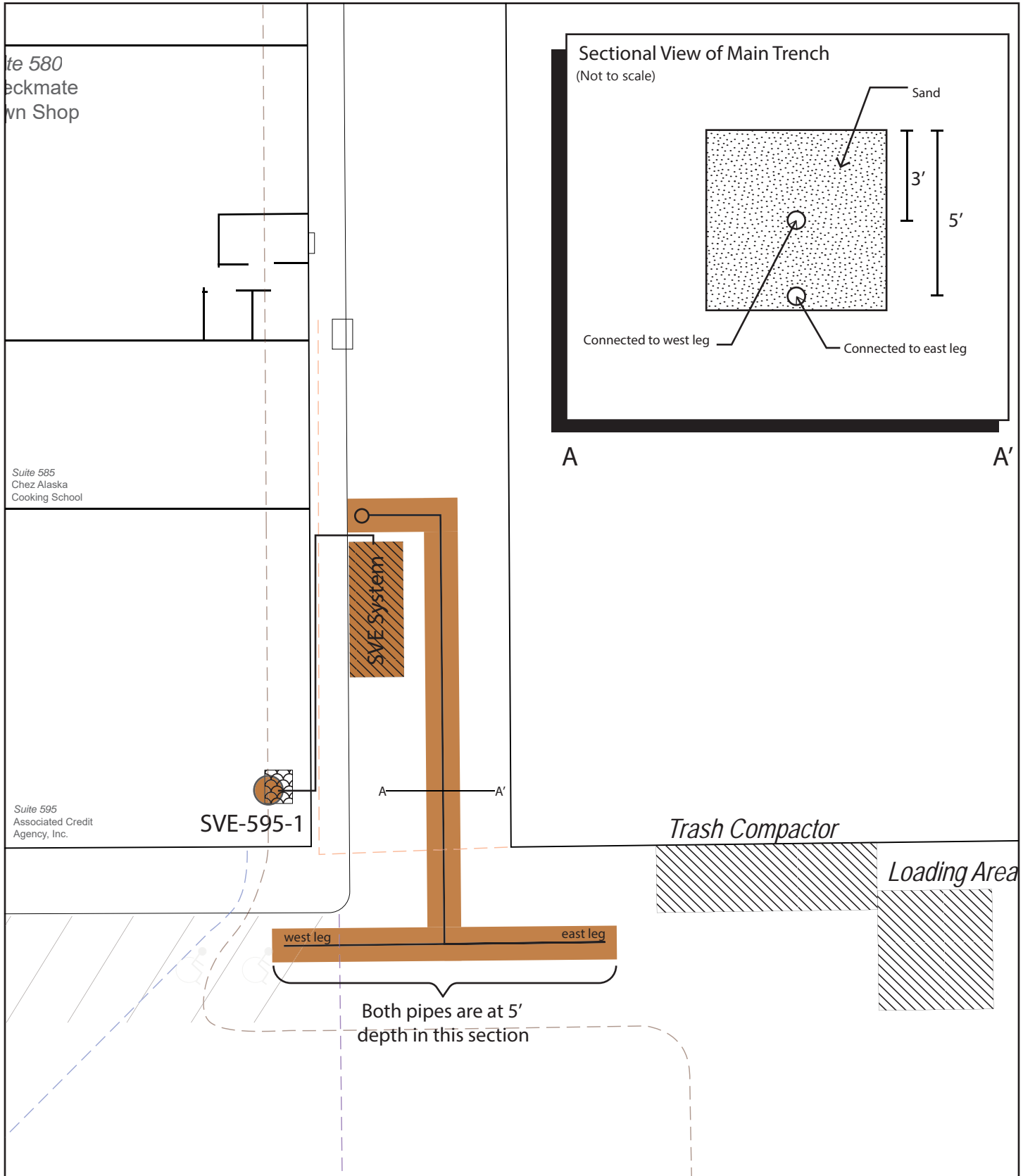
**Diesel UST Sample Locations**











2092 Jordan Ave  
Juneau, AK

Figure 12

Created by C. Cary 12/19/2016



-  SVE Well
-  SVE System Trench
-  SVE System

- Utility Lines
-  Electrical
  -  Water
  -  Sanitary Sewer
  -  Cable/Phone
  -  Utility of Unknown Purpose


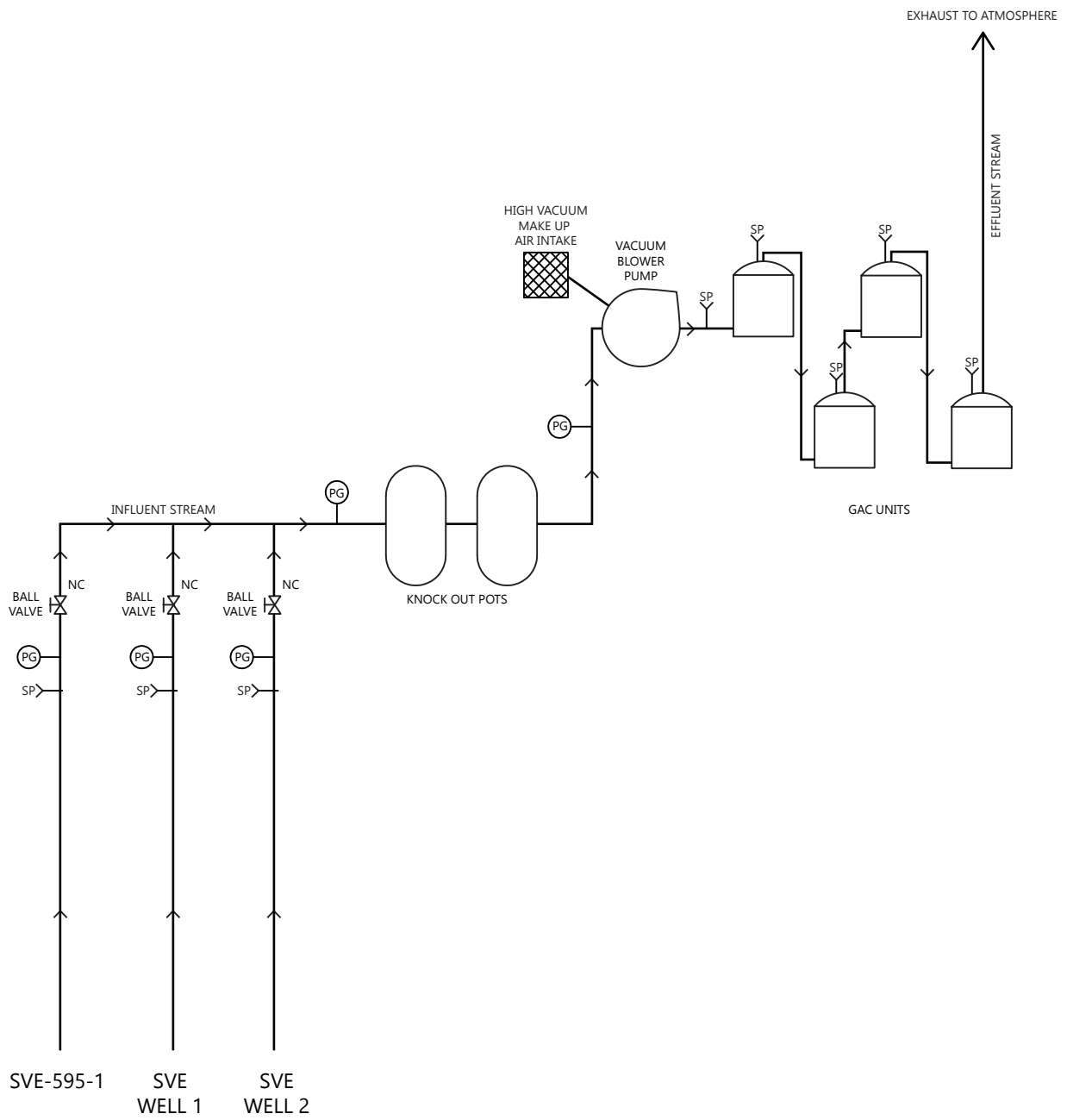
<b>SVE Remediation System</b>	
	2092 Jordan Ave Juneau, AK



Figure 13

Created by C. Cary 12/10/2016





drawing not to scale

- GAC Granular Activated Carbon
-  Pressure Gauge
-  Sample Port

### Schematic of Vapor Extraction Flow Process



2092 Jordan Ave  
Juneau, AK

Figure 14

## TABLES

Table 1: Soil Analytical Results  
2092 Jordan Ave, Juneau, Alaska

Location ID	Sample Depth (ft bgs)	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
			µg/kg				
Cleanup Levels-MTGW			190	11	120	1,300	0.8
Cleanup Levels-HHI			68,000	3,500	170,000	960,000	610
C1	5.5	10/04/16	5.4	<4.5	<4.5	<4.5	<4.5
	6.5	10/04/16	<4.0	<4.0	4.7	<4.0	<4.0
	13	10/04/16	<5.0	<5.0	<5.0	<5.0	<5.0
C2	4.5	10/06/16	<4.2	<4.2	<4.2	<4.2	<4.2
	10.5	10/06/16	<4.0	<4.0	72	<4.0	<4.0
	15	10/06/16	<4.3	<4.3	<4.3	<4.3	<4.3
C3	4.5	10/06/16	<4.5	<4.5	<4.5	<4.5	<4.5
	10	10/06/16	<4.0	<4.0	45	<4.0	<4.0
	15	10/06/16	<4.4	<4.4	<4.4	<4.4	<4.4
C4	5	10/06/16	<4.4	<4.4	<4.4	<4.4	<4.4
	10	10/06/16	<3.8	<3.8	<3.8	<3.8	<3.8
	15	10/06/16	<4.2	<4.2	<4.2	<4.2	<4.2
C5	3	10/05/16	<5.0	<5.0	<5.0	<5.0	<5.0
	10	10/05/16	<3.5	<3.5	<3.5	<3.5	<3.5
	15	10/05/16	<5.0	<5.0	<5.0	<5.0	<5.0
C6	5	10/05/16	<5.0	<5.0	<5.0	<5.0	<5.0
	10	10/05/16	<4.3	<4.3	<4.3	<4.3	<4.3
	15	10/05/16	<4.1	<4.1	<4.1	<4.1	<4.1
C7	3.5	10/06/16	<4.5	<4.5	<4.5	<4.5	<4.5
	10	10/06/16	<5.0	<5.0	<5.0	<5.0	<5.0
	15	10/06/16	<4.3	<4.3	<4.3	<4.3	<4.3

Notes:

Cleanup Levels-MTGW: Alaska regulations 18 AAC 75.341; Table B1; Migration to Groundwater, 2016

Cleanup Levels-HHI: Alaska regulations 18 AAC 75.341; Table B1; Human Health Inhalation - over 40 inch zone, 2016

µg/kg: micrograms per kilogram

ft bgs: feet below ground surface

concentration above cleanup level

Table 2: Ground Water Analytical Results  
2029 Jordan Ave, Juneau, Alaska

**GRAB GROUND WATER SAMPLES**

Location ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
		µg/L				
<b>Cleanup Levels-HH</b>		<b>41</b>	<b>2.8</b>	<b>36</b>	<b>360</b>	<b>0.19</b>
<b>Cleanup Levels-VI</b>		<b>240</b>	<b>22</b>	<b>180</b>	<b>1580</b>	<b>2.5</b>
C3	10/06/16	<1.2	<1.2	120	1.9	8.5
C3 (Dup1)	10/05/16	<1.2	<1.2	130	1.8	8.9
C4	10/06/16	<1.2	<1.2	<1.2	<1.2	<1.2
C5	10/05/16	<1.2	<1.2	26	1.2	<1.2
C6	10/05/16	<1.2	<1.2	<1.2	<1.2	<1.2
C7	10/06/16	<1.2	<1.2	6.4	<1.2	<1.2
C8	10/05/16	<1.2	<1.2	<1.2	<1.2	<1.2
C9	10/05/16	<1.2	<1.2	<1.2	<1.2	<1.2

**MONITOR WELL SAMPLES**

Location ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	DTW	GWE
		µg/L					ft bgs	ft msl
<b>Cleanup Levels-HH</b>		<b>41</b>	<b>2.8</b>	<b>36</b>	<b>360</b>	<b>0.19</b>	--	--
<b>Cleanup Levels-VI</b>		<b>240</b>	<b>22</b>	<b>180</b>	<b>1580</b>	<b>2.5</b>	--	--
MW-1	10/02/16	<1.2	2.2	68	3.2	<1.2	7.99	18
MW-2	10/02/16	<1.2	<1.2	<1.2	<1.2	<1.2	7.62	18.35
MW-3	10/02/16	<1.2	<1.2	<1.2	<1.2	<1.2	7.33	19.5

Notes:

Cleanup Levels-HH: Alaska regulations 18 AAC 75.341; Ground Water Cleanup Levels-Human Health, Table C, 2016

Cleanup Levels-VI: Alaska regulations 18 AAC 75.341; Ground Water Cleanup Levels, Commercial Vapor Intrusion, Appendix G, 2012

µg/L: micrograms per liter

Top of Casings in NAVD MW-1: 25.99      MW-3: 26.83

88: MW-2: 25.97

concentration above human health level

concentration above vapor intrusion level

Table 3: Soil Vapor Analytical Results  
2029 Jordan Ave, Juneau, Alaska

Location ID	Vapor Point Depth (ft bgs)	Sample Date	Lab Method	Chlorinated VOCs						Other VOCs														
				Tetrachloroethene	Trichloroethene	cis - 1,2 - Dichloroethylene	trans- 1,2 - Dichloroethylene	Vinyl Chloride	1,1-Dichloroethane	Heptane	Hexane	4-Ethyltoluene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Dichlorodifluoromethane	Carbon Disulfide	Tetrahydrofuran	Trichlorofluoromethane	
				µg/m <sup>3</sup>						µg/m <sup>3</sup>														
ESLs for Commercial Scenario				1800	88	310	2600	280	770	--	30700	--	310	310	160	219000	490	4400	4400	4400	30700	--	30700	
SV1	4	10/7/2016	TO-14	1100	77J	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV2	4	10/6/2016	TO-15	100	<5.5	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV3	4	10/6/2016	TO-15	<6.9	<5.5	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV4	4	10/7/2016	TO-15	16	<5.5	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV5	4	10/6/2016	TO-15	41	13	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV6	4	10/7/2016	TO-15	160	5.9	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV7	4	10/6/2016	TO-15	4700	90	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV8	4	10/7/2016	TO-14	5000	58J	<200	<200	<130	<130	<210	<180	<250	<250	<250	<160	<190	<220	<220	<220	<220	<250	<160	<150	<290
SV9	4	10/7/2016	TO-14	2900	<270	<200	<200	<130	<130	<210	<180	<250	<250	<250	<160	<190	<220	<220	<220	<220	<250	<160	<150	<290
SV9 (Dup1)	4	10/7/2016	TO-14	2600	<270	<200	<200	<130	<130	<210	<180	<250	<250	<250	<160	<190	<220	<220	<220	<220	<250	<160	<150	<290
SV10	4	10/7/2016	TO-15	160	56	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SV11	4	10/7/2016	TO-15	34	<5.5	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SS1	0.4	10/6/2016	TO-14	29000	<270	<200	<200	<130	<130	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SS2	0.4	10/7/2016	TO-14	320J	<5.5	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SS2 (Dup2)	0.4	10/7/2016	TO-15	590	25	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SS3	0.4	10/6/2016	TO-15	1300	34	<4.0	<4.0	<2.6	<2.6	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	<5.7	
SS4	0.4	10/25/2016	TO-15	840	<270	<200	<200	640	<210	<210	<180	<250	<250	<250	<160	<190	<220	<220	<220	<250	<160	<150	<290	
SS5	0.4	10/25/2016	TO-15	290	250	<4.0	<4.0	<2.6	9	5	370	10	24	96	7.7	74	20	110	33	<5	<3.2	<3	<5.7	
SS6	0.4	10/25/2016	TO-15	1900	<270	<200	<200	<130	<210	<210	<180	<250	<250	<250	<160	<190	<220	<220	<220	<220	<250	<160	<150	<290
SS6 (Dup)	0.4	10/25/2016	TO-15	2000	<270	430	<200	310	<210	<210	<180	<250	<250	<250	<160	<190	<220	270	<220	<250	<160	<150	<290	
SS8	1.75	12/6/2016	TO-15	130	6.5	<4.0	<4.0	<2.6	<4.1	<4.2	<3.6	<5	<5	<5	<3.3	4.1	<4.4	<8.8	<4.4	<5	<3.2	17	<5.7	
SS8 (Dup)	1.75	12/6/2016	TO-15	130	<5.5	<4.0	<4.0	<2.6	<4.1	<4.2	<3.6	<5	<5	<5	<3.3	4.3	<4.4	<8.8	<4.4	<5	<3.2	16	<5.7	
SS9	1.75	12/6/2016	TO-15	160	<5.5	<4.0	<4.0	<2.6	<4.1	<4.2	<3.6	<5	<5	<5	12	8.6	<4.4	<8.8	<4.4	6.3	<3.2	26	19	
SS10	1.75	12/6/2016	TO-15	130	<5.5	<4.0	<4.0	<2.6	<4.1	<4.2	<3.6	<5	<5	<5	<3.3	7.6	<4.4	<8.8	<4.4	<5	3.7	<3	190	
SS11	1.75	12/6/2016	TO-15	170	<5.5	<4.0	<4.0	<2.6	<4.1	<4.2	<3.6	<5	<5	<5	29	8.3	<4.4	<8.8	<4.4	<5	<3.2	34	12	
SS12	1.75	12/6/2016	TO-15	110	<5.5	<4.0	<4.0	<2.6	<4.1	<4.2	<3.6	<5	<5	<5	<3.3	<3.8	<4.4	<8.8	<4.4	<5	<3.2	<3	27	
SS13	1.75	12/6/2016	TO-15	330	7.2	<4.0	<4.0	<2.6	<4.1	<4.2	<3.6	<5	<5	<5	26	7.6	<4.4	<8.8	<4.4	<5	<3.2	26	<5.7	

Notes:

ft bgs: feet below ground surface

µg/m<sup>3</sup>: micrograms per cubic meter

concentration above applicable ESL

--: not analyzed; not applicable

SS: Subslab

< : not reported above limit shown

J: Detected but below the Standard Reporting Limit; result is an estimated concentration

ESLs: Environmental Screening Levels for Vapor Intrusion: ADEC Vapor Intrusion Guidelines, 2012; Appendix E

TO-14: TO-15 analysis of the sample was not done due to high concentration of the analyte(s). Sample was analyzed using TO-14 and reporting limits were adjusted

Table 4: Indoor Air Analytical Results  
2029 Jordan Ave, Juneau, Alaska

Sample ID	Location	Sample Date	Tetrachloroethene	Trichloroethene	cis - 1,2 - Dichloroethylene	trans - 1,2 - Dichloroethylene	Vinyl Chloride	Benzene	Toluene	m,p-Xylene
			$\mu\text{g}/\text{m}^3$							
ADEC Target Levels			180	8.8	31	260	28	16	21900	440
550C	Suite 550	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
550D	Suite 550	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
580C	Suite 580	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
585C	Suite 585	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
595C	Suite 595	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
595D	Suite 595	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
595D (DUP1)	Suite 595	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
5C-UP	Outside	10/5/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<0.14	<0.14	<0.20
Joann-1-S	Nugget Mall	10/26/2016	<0.21	<0.21	<0.25	<0.22	<0.052	1.8	17	3
Joann-2-N	Nugget Mall	10/26/2016	<0.21	<0.21	<0.25	<0.22	<0.052	1.7	14	2.3
Outside-N	Outside	10/26/2016	<0.21	<0.21	<0.25	<0.22	<0.052	<3.3	2.5	<8.8

Notes:

< : not reported above method detection limit shown

$\mu\text{g}/\text{m}^3$ : micrograms per cubic meter

ADEC Target Levels based on Appendix D, Target Levels for Indoor air, Commercial, 2012

concentration above target level

Table 5: Soil and Ground Water Analytical Results for Diesel UST  
2029 Jordan Ave, Juneau, Alaska

Location ID	Sample Depth (ft bgs)	Date Sampled	TPHd	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
SOIL			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
T1	5	10/07/16	<10	--	--	--	--	--
	10	10/07/16	<10	--	--	--	--	--
T1B	5	10/07/16	<10	--	--	--	--	--
	10	10/07/16	<10	--	--	--	--	--
T2	2.5	10/07/16	<10	--	--	--	--	--
	5	10/07/16	<10	--	--	--	--	--
GRAB GROUND WATER			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
T1	--	10/07/16	320	<1.2	<1.2	<1.2	<1.2	<1.2

Notes:

TPHd: Total petroleum hydrocarbons as diesel

mg/L: milligrams per liter

mg/kg: milligrams per kilogram

µg/kg: micrograms per kilogram

**Ground Water Cleanup Level for TPHd is 1,500 mg/L per Alaska regulations 18 AAC 75.341; Table C; October 2016**

## APPENDIX A



**Smith Bayliss LeResche Inc** Environmental Consultants and Engineers

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**Capital City Cleaners Concrete Sampling**

On April 2, 2003 Jason Ginter and Brock Tabor with Smith Bayliss LeResche Inc (SBL) used our Geoprobe direct push sampling equipment to take samples from the interior concrete floor inside the former Capital City Cleaners shop. The shop, located at 8745 Glacier Highway within the Nugget Mall Complex, had formerly been used as a dry cleaning shop.


We drilled four sample borings from the three-inch thick concrete in the vicinity of the former dry cleaning equipment as described by Neal McKinnon and shown by Bud Jaeger. Due to the small amount of material gathered in each of the two-inch wide, three-inch deep borings, we had to take composite samples. Material from two borings was added together and analyzed as one sample. We sent two samples to Analytical Resources Inc (ARI) in Seattle, WA for analysis. ARI analyzed both samples for volatile organic compounds by EPA method 8260. Sample locations are shown on the attached site sketch, sample results are listed below. Full analytical results are attached.

**Sample Results in ppm**

Sample ID	Boring ID	Tetrachloroethene	Trichloroethene
CZ01	A & B	0.58	0.160
CZ02	C & D	None detected	None detected

No other volatile organic compounds were present in either of the samples. ADEC does not normally get involved with building interiors. Both solvents detected in sample CZ01 taken from borings A & B exceed the ADEC Method Two requirements for soil (migration to groundwater). The cleanup level for tetrachloroethene (perchloroethylene) is 0.025 ppm; trichloroethene (trichlor or trichloroethylene) is 0.02 ppm. However, neither exceeds the ADEC Method Two inhalation standards, 79 ppm and 32 ppm respectively.

We recommend the removal and replacement of the concrete flooring from the affected area. We also recommend sealing the rest of the floor. We only tested areas of the floor inside the building where the dry cleaning equipment had been used and stored. We cannot make any statements as to the condition of the remainder of the concrete in the building.



Smith Bayliss LeResche Inc  
by Jason Ginter,  
Environmental Chemist  
11 April 2003

## **Former Capital City Cleaners facility**

Bank One requested subsurface investigation of groundwater and soil at the former dry cleaning facility site based on the trace presence of perchloroethylene in a (removed) section of the concrete floor. We were unable to use a hollow stem auger rig to drill the boreholes at the site due to a lack of available local equipment within the timeframe for this project. On May 12, 2004 we used our Geoprobe direct push sampling equipment to take samples from three borings made around the building that formerly housed the Capital City Cleaners.

We took samples from soil collected from two-foot cores throughout the borings. Boring locations are shown on the attached site sketch, Figure 1. We advanced soil borings into the water table, as indicated by saturated soils and the underlying confining layer. After the boreholes were completed, we installed one-inch diameter PVC well casings into the boreholes.

We field screened all soil samples using Chlor-N-Soil test kits and our HNU Systems model PI-101 photoionization detector (PID). None of the soil cores displayed positive readings for chlorinated compounds using the Chlor-N-Soil kits. The Chlor-N-Soil kits used for this project are reliable to one part per million (ppm). None of the soil screened displayed positive headspace readings for aromatic hydrocarbons using the PID (sensitivity to two ppm).

We sent one soil sample from each boring to Analytica for volatile organic compounds (VOCs) analysis by EPA method 8260. We selected the water-saturated soils for laboratory analysis. Laboratory results for these samples are listed in the following table.

### **VOC results in ppm**

<b>Detected VOCs</b>	<b>Boring 1</b>	<b>Boring 2</b>	<b>Boring 3</b>
1,2,4-trimethylbenzene	0.0005 j	0.00073 j	Nondetect
Acetone	0.035 j	0.076	0.015 j
2-butanone	Nondetect	0.026 j	Nondetect
4-Isopropyltoluene	Nondetect	0.0014 j	Nondetect
Carbon disulfide	0.0015 j	0.00055 j	Nondetect
Cis-1,2-dichloroethene	0.001 j	Nondetect	Nondetect
Dichlorodifluoromethane	0.00052 j	0.00043	0.00023 j
Ethylbenzene	0.00018 j	Nondetect	Nondetect
Xylenes	0.00091 j	0.00101 j	Nondetect
Methylene chloride	0.0015 j	0.0018 j	0.0011 j
Naphthalene	0.00047 j	Nondetect	Nondetect
Tetrachloroethene	0.016	Nondetect	Nondetect
Toluene	0.0008 j	Nondetect	Nondetect

Results flagged with ( j ) are slightly above the laboratory reporting limit but below the quantifiable limit. These values are listed as estimates. None of the VOCs present exceed the ADEC cleanup requirements for migration to groundwater (the most

stringent) in the 40-inch precipitation zone as listed in 18 AAC 75, Table B1 – Method Two cleanup levels.

We installed one inch monitoring wells in each of the borings made around the former Capital City Cleaners building. Due to low rain conditions and the limits of drilling wells using Geoprobe equipment, we were unable to obtain water samples from these wells using generally accepted well sampling techniques. Recovery from these wells is currently poor and combined with the current low groundwater level in Juneau; the wells could not be properly developed to meet the timeframe of this project.

**UST assessment**

Bank One requested that soil samples be taken from around the 1,000-gallon underground storage tank (UST) currently in use for heating oil storage for the Nugget Mall. We used our Geoprobe equipment to take soil samples from two borings made adjacent the UST. We took samples from the two-foot cores even with the bottom of the tank, while including soils from the groundwater interface. We field screened soils from these borings using both the hot water sheen test and with PID headspace analysis. All field screening results from these borings were negative for petroleum contaminants.

We sent these two samples to Analytica laboratories for analysis. Analytica analyzed the samples for diesel range organics (DRO) using Method AK102. We did not analyze for polynuclear aromatic hydrocarbons (PAHs) based on the negative results for petroleum contaminants during field screening. Boring locations are shown on Figure 1, samples results are listed below.

**DRO results in ppm**

Boring/sample ID	Sample depth	DRO in ppm	Diesel ID?
B4	5.5' – 7.5'	Nondetect	No
B5	5.5' – 7.5'	Nondetect	No

**Sample Boring log**

B1		B2		B3		B4		B5	
0 – 4"	asphalt	0-4"	Asphalt	0-4"	Asphalt	0-4"	Asphalt	0-4"	Asphalt
4 – 24"	Imported sandy fill	4-16"	Imported sandy fill	4-22"	Imported sandy fill	4-24"	Imported sandy fill	4-22"	Imported sandy fill
24 – 62"	Sand	16-40"	Sand	22-58"	Sand & gravel	24-68"	Sand	22-68"	Sand
62 – 96"	Silt/clay	40-84"	Silt/clay	58 – 84"	Silt/clay	68-90"	Silt/clay	68-90"	Silt/clay
60"	water	40"	water	57"	water	68"	Water	68"	water

**Wee Fishie Shoppe UST closure**

On May 11, 2004 we began work to close the 1,000-gallon abandoned heating oil UST located behind the Wee Fishie Shoppe. When interviewed for the Phase I Environmental Site Assessment, the shop owner Mr. Chandler stated that the tank had been pumped dry. When we inspected the tank for closure we found the tank to



Matrix Spikes, Method Blanks, and Laboratory Control Samples will be identified, analyzed, and reported in accordance with method specific requirements identified in the analytical laboratory's SOPs.

## 7.0 SAMPLE RESULTS AND DISCUSSION

A total of 13 samples (three groundwater samples and one duplicate, nine soil samples and one duplicate) were collected and submitted to SGS North America under appropriate chain of custody procedures for the following analysis:

- Volatile Organic Compounds (VOC) by EPA SW846 Method 8260.

The sampling was done in accordance with the ADEC May 2010 Draft Field Sampling Guidance (FSG).

PCE is a dense non-aqueous phase liquid (DNAPL), meaning it is not soluble in water and heavier than water, therefore will continue to sink upon reaching groundwater. PCE breaks down under anaerobic conditions (lack of free oxygen as O<sub>2</sub>) by reductive dechlorination and naturally by microbiological decomposition of the contaminants, specifically by *dehalococcoides* sp. Reductive dechlorination is the degradation of chlorinated organic compounds, such as PCE, by chemical reduction with the release of chloride ions. TCE, cis-1,2 DCE, and vinyl chloride are the breakdown compounds formed under these conditions, all of which are denser than water.

### 7.1 Groundwater

A summary of laboratory results for the samples are in Table 5 below. MW-1 exceeds the ADEC cleanup level for cis-1,2-Dichloroethylene in groundwater. Tetrachloroethylene, trichloroethylene, and trans-1,2-Dichloroethylene were detected at concentrations below the ADEC cleanup limit but above the laboratory limit of quantitation (LOQ). MW-2 has cis-1,2-dichloroethylene concentrations below the ADEC cleanup limit with PCE and the other breakdown products not detected at the listed LOQ. Results for MW-3, located on the west side of the building, are non-detect for all VOCs.

**Table 5**  
**Groundwater Sample Detectable Laboratory Analytical Results**

Sample ID	ADEC	MW-1	MW-2	MW-3	MW-10*
Sample Collection Date		5/8/16	5/8/16	5/8/16	5/8/16
Analyte	mg/L	mg/L	mg/L	mg/L	mg/L
<b>VOCs</b>					
1,1-Dichloroethene	0.007	0.00032 J	0.0005 U	0.0005 U	0.0005 U
Chloromethane	0.066	0.00034 J	0.0005 U	0.0005 U	0.0005 U
cis-1,2-Dichloroethene	0.07	<b>0.0792</b>	<b>0.00393</b>	0.0005 U	<b>0.00374</b>
Tetrachloroethene (PCE)	0.005	<b>0.00257</b>	0.0005 U	0.0005 U	0.0005 U
Toluene	1.0	<b>0.00238</b>	0.00063 J	0.00035 J	0.00073 J
trans-1,2-Dichloroethene	0.10	<b>0.00393</b>	0.0005 U	0.0005 U	0.0005 U
Trichloroethene (TCE)	0.005	<b>0.00321</b>	0.0005 U	0.0005 U	0.0005 U
Vinyl Chloride	0.002	0.00074 J	0.0005 U	0.0005 U	0.0005 U

<b>Bold</b>	Analyte detected in concentration above the ADEC Cleanup level
# U	Analyte not detected at the listed limit of quantitation (LOQ)
Shade	Analyte detected in concentration below the ADEC Cleanup level
<b>MW-10*</b>	Duplicate pair to MW-2

Table 6  
Soil Sample Laboratory Analytical Results

Sample ID	ADEC	BH1 (6-10)	BH1 (12-14)	BH2 (2-4)	BH2 (14-16)	BH2A (14-16)	BH3 (2-4)	BH3 (16-18)	BH6 (2-4)	BH6 (16-18)
Sample Collection Date		5/5/16	5/5/16	5/5/16	5/5/16	5/5/16	5/5/16	5/5/16	5/5/16	5/5/16
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<b>VOCs</b>										
1,1-Dichloroethene	0.030	0.0129 U	0.0109 U	0.0127 U	0.0116 U	0.0119 U	0.0116 U	0.0107 U	0.0119 U	0.0189 U
Chloromethane	0.21	0.0129 U	0.0109 U	0.0127 U	0.0116 U	0.0119 U	0.0116 U	0.0107 U	0.0119 U	0.0189 U
cis-1,2-Dichloroethene	0.24	0.0129 U	0.0109 U	0.0127 U	0.0116 U	0.0119 U	0.0116 U	0.0107 U	0.0119 U	0.0189 U
Tetrachloroethene	0.024	<b>0.106</b>	0.00545 U	0.00431 U	0.00580 U	0.00595 U	0.00510 J	0.00535 U	0.0109 J	0.00945 U
Toluene	6.5	0.0129 U	0.0109 U	0.0127 U	0.0116 U	0.0119 U	0.0116 U	0.0107 U	0.0119 U	0.0189 U
trans-1,2-Dichloroethene	0.37	0.0129 U	0.0109 U	0.0127 U	0.0116 U	0.0119 U	0.0116 U	0.0107 U	0.0119 U	0.0189 U
Trichloroethene	0.020	0.00645 U	0.00545 U	0.00635 U	0.00580 U	0.00595 U	0.00580 U	0.00535 U	0.00595 U	0.00945 U
Vinyl Chloride	0.0085	0.00515U	0.00436 U	0.00505 U	0.00462 U	0.00475 U	0.00464 U	0.00428 U	0.00476 U	0.00755 U

<b>Bold</b>	Analyte detected in concentration above the ADEC Cleanup level
# U	Analyte not detected at the listed limit of quantitation (LOQ)
# J	Analyte detected below the laboratory limit of quantitation (LOQ)
<b>BH2A (14-16)</b>	Duplicate pair to BH2 (14-16)



Table 2  
Partner 2015 Subsurface Sampling Laboratory Results of Detected Analytes

Sample ID	ADEC Commercial Target Levels for Sub Slab Soil Gas	SG1	SG2	SG3
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Tetrachloroethylene (PCE)	1,800	65,000	45,000	86,000
Trichloroethylene (TCE)	88	< 270	2,200	< 270
Cis-1,2-Dichloroethylene	310	< 200	1,000	< 200

#### 4.0 SCOPE OF WORK

**NORTECH** is contracted to determine if a vapor intrusion risk exists and to identify and delineate contamination present in the soil and groundwater at the Site. **NORTECH** used a Geoprobe direct push drill to collect soils samples and install three monitoring wells around the property. During drilling activities, soil was field screened at every two foot interval using a PPB RAE Photoionization detector. Soil samples with the highest field screening were collected for laboratory analysis of VOCs. Water samples were collected from the bottom of each well and submitted for laboratory analysis of VOCs. In addition to soil and groundwater sampling, an indoor air quality survey of the building was performed.

#### 5.0 FIELD ACTIVITIES

**NORTECH** conducted indoor air monitoring in the building suites currently occupied by Associated Credit and Chez Alaska. For more information on indoor air monitoring activities and results, see Appendix 8.

On May 4, 2016 **NORTECH** personnel oversaw the drilling of six soil borings outside building Suite 595 of the Nugget Mall Annex. Weather conditions were mostly sunny, 48° F, with winds gusting over 15 mph. The soil borings were drilled using a Geoprobe direct push drill rig equipped with a GH42 hammer. A 2.25 inch diameter, four foot macro-core sample barrel with a 1.5 inch polyethylene sleeve was used for sample collection.

**NORTECH** personnel collected soil samples at two foot depth intervals from each soil boring, in addition to classifying the soils. Information regarding soil types and boring depths can be found in the Boring Logs in Appendix 2. All soil samples were field screened using a PPB RAE Photoionization Detector capable of detecting organic solvents. **NORTECH** personnel recorded the highest field screening reading from the PPB Detector for each sample. The two sample intervals with the highest field screening results from each soil boring that were to be converted to monitoring wells were sent to SGS Laboratories in Anchorage, Alaska for analysis of volatile organic compounds (VOC). A total of nine soil samples (eight samples and one duplicate) were shipped to SGS via Alaska Air Cargo Goldstreak.

**NORTECH** installed groundwater monitoring wells in three of the soil boring locations. A fourth monitoring well was to be installed, however, the main return hydraulic line of the drill rig failed, ceasing operation of the rig. Repairs could not be made on site. The monitoring wells are in close proximity to old monitoring wells previously installed by SBL in 2003. The previously installed wells were not utilized as they are too shallow for the purpose of this investigation (previously used for soil gas survey). See Appendix 1, Figure 2 for monitoring well and borehole locations. Well depths were determined by PID field screening analysis, placing the screen section to contain the highest PID interval below the groundwater table.

## APPENDIX B







Environmental Resource Group  
1038 Redwood Highway, Suite 1  
Mill Valley, CA 94941

Date: 10/6/2016		Logged By: Yola Bayram		Soil Boring					
Location: 2092 Jordan Ave Juneau, AK				Elevation					
Client: Resource Transition Consultants, LLC				GSE:					
Drilling Co.: R&M		Driller: Rob		Depth to Water					
Drilling Method: Hollow Stem Auger		Grout Materials and Method: Neat cement/Tremie		Initial: ft.      Static: ft.					
Groundwater Sampling Method: Peristaltic Pump				Total Boring Depth: 15.5 ft.					
Soil Sampling Method: Terracores/Jars				Lat.:                  Long:					
Depth, bgs (ft)	Recovery	OVM/PID (ppm)	Soil Sample	Water Sample	Saturated Zone	USCS	Graphic Log	Material Description	Remarks
0							Asphalt with asphalt base		
0						SM	Silty sand (SM) light brown, 5-10% silt, fg-mg sand with gravels up to 0.5" in size, loose, damp		Groundwater sample collected
0						ML	Sandy glacial silt (ML) grey, 25% vfg-fg rounded sand, some mica flakes, dense, dry		
0						ML	Glacial silt (ML) gley, 5% organic material, some mica, soft, damp		
0						ML	Glacial silt (ML) gley, 5% organic material, some mica, soft, damp		
0						SW	Sandy glacial silt (ML) gley, 5% cg sand, damp		
0						SW	Sand (SW) yellow-brown, mg-cg sand, damp		
0						ML	Glacial silt (ML) gley, 10-15% organic material, some mica, soft, damp		
10						GW	Gravel-sand mixture (GW), grey, 25% gravels and cobbles, cg rounded sand, loose, saturated		
15									
Total Depth: 15.5 ft.									



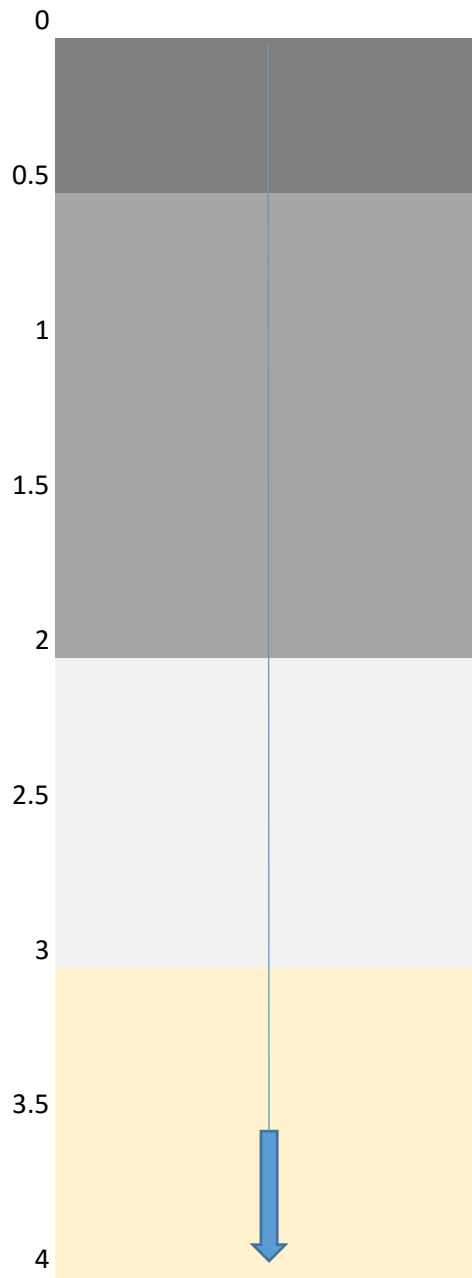


Date: 10/5/2016		Logged By: Yola Bayram		Soil Boring					
Location: 2092 Jordan Ave Juneau, AK				Elevation					
Client: Resource Transition Consultants, LLC				GSE:					
Drilling Co.: R&M		Driller: Rob		Depth to Water					
Drilling Method: Hollow Stem Auger		Grout Materials and Method: Neat cement/Tremie		Initial: ft.      Static: ft.					
Groundwater Sampling Method: Peristaltic Pump				Total Boring Depth: 13 ft.					
Soil Sampling Method: Terracores/Jars				Lat.:              Long:					
Depth, bgs (ft)	Recovery	OVMPID (ppm)	Soil Sample	Water Sample	Saturated Zone	USCS	Graphic Log	Material Description	Remarks
0							Asphalt with asphalt base		Groundwater sample collected
0						SW SM	Sand with silt (SW-SM) light brown, 5% silt, fg sand with gravels up to 0.5" in size, loose, dry		
0						SW SM	Sand with silt (SW-SM), dark brown, 5% silt, fg-cg sand with cobbles, loose, dry		
5	0	2				OL	Glacial silt (OL) gley, 5% vfg-fg sand, 45-55% organic material, roots, wood, grass, low plasticity, dry		
	0.3					OL	Organic material content decreases to 5% vfg sand content increases to 5-10%		
						OL	Wet		
10	0	0				GM	Gravel-sand mixture (GM), dark grey, cg sand, gravels and cobbles, 5% silt, very loose, wet		
15	0	0				GM	2" glacial silt lens with 25% cg sand		
Total Depth: 13 ft.									

Environmental Resource Group  
1038 Redwood Highway, Suite 1  
Mill Valley, CA 94941

Date: 10/6/2016		Logged By: Yola Bayram		Soil Boring					
Location: 2092 Jordan Ave Juneau, AK				Elevation					
Client: Resource Transition Consultants, LLC				GSE:					
Drilling Co.: R&M		Driller: Rob		Depth to Water					
Drilling Method: Hollow Stem Auger		Grout Materials and Method: Neat cement/Tremie		Initial: ft.	Static: ft.				
Groundwater Sampling Method: Peristaltic Pump				Total Boring Depth: 15.5 ft.					
Soil Sampling Method: Terracores/Jars				Lat.:	Long:				
Depth, bgs (ft)	Recovery	OVM/PID (ppm)	Soil Sample	Water Sample	Saturated Zone	USCS	Graphic Log	Material Description	Remarks
0								Asphalt with asphalt base	
0.1						SM		Silty sand (SM) brown, 10-15% silt, mg-cg sand, loose, dry	Groundwater sample collected
0.2									
0.3									
0.4								Glacial silt (ML) gley, 5% organic material, some mica, soft, damp	
0.5						ML			
1.0								Gravel-sand mixture (GW), grey, 25% gravels and cobbles, cg rounded sand, loose, saturated	
1.5						GW			
15.5								Total Depth: 15.5 ft.	

### Soil Vapor Well Construction Log



Monitor Well Box	Dry Bentonite	Filter Pack	Hydrated Bentonite
Tubing	Vapor Implant		

## APPENDIX C





25712 Commercentre Drive  
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12 October 2016

Ben Wells  
ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley, CA 94941  
RE: Nugget Mall

Enclosed are the results of analyses for samples received by the laboratory on 10/11/16 11:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane  
Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/12/16 17:03

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV7	T162512-01	Air	10/05/16 16:00	10/11/16 11:40
SV2	T162512-02	Air	10/05/16 17:35	10/11/16 11:40
SS3	T162512-03	Air	10/06/16 10:05	10/11/16 11:40
SS1	T162512-04	Air	10/06/16 11:21	10/11/16 11:40

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/12/16 17:03

**DETECTIONS SUMMARY**

**Sample ID:** SV7

**Laboratory ID:** T162512-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	4700	6.9	ug/m <sup>3</sup> Air	TO-15	
Trichloroethene	90	5.5	ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** SV2

**Laboratory ID:** T162512-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	100	6.9	ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** SS3

**Laboratory ID:** T162512-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	1300	6.9	ug/m <sup>3</sup> Air	TO-15	
Trichloroethene	34	5.5	ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** SS1

**Laboratory ID:** T162512-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	29000	6.9	ug/m <sup>3</sup> Air	TO-15	

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Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**SV7**  
**T162512-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	12	ug/m <sup>3</sup> Air	1.47	6101135	10/11/16	10/12/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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 949.297.5027 Fax

ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**SV7**  
**T162512-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Methylene chloride	ND	3.5	ug/m <sup>3</sup> Air	1.47	6101135	10/11/16	10/12/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>4700</b>	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>90</b>	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 102 % 40-160 " " " "

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**SV2**  
**T162512-02 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	12	ug/m <sup>3</sup> Air	1.38	6101135	10/11/16	10/12/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**SV2**  
**T162512-02 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Methylene chloride	ND	3.5	ug/m <sup>3</sup> Air	1.38	6101135	10/11/16	10/12/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>100</b>	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %		40-160	"	"	"	"	

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**SS3**  
**T162512-03 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	12	ug/m <sup>3</sup> Air	1.35	6101135	10/11/16	10/12/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager







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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**SS1**  
**T162512-04 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	12	ug/m <sup>3</sup> Air	1.41	6101135	10/11/16	10/11/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
---	--	-----------------------------

**SS1**  
**T162512-04 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Methylene chloride	ND	3.5	ug/m <sup>3</sup> Air	1.41	6101135	10/11/16	10/11/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>29000</b>	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101135 - Canister Analysis**

**Blank (6101135-BLK1)**

Prepared & Analyzed: 10/11/16

Acetone	ND	120	ug/m <sup>3</sup> Air							TO-14
1,3-Butadiene	ND	110	"							TO-14
Carbon Disulfide	ND	160	"							TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"							TO-14
Isopropyl alcohol	ND	130	"							TO-14
Bromodichloromethane	ND	340	"							TO-14
Bromoform	ND	530	"							TO-14
Bromomethane	ND	200	"							TO-14
Carbon tetrachloride	ND	320	"							TO-14
Chlorobenzene	ND	230	"							TO-14
Chloroethane	ND	130	"							TO-14
Chloroform	ND	250	"							TO-14
Chloromethane	ND	110	"							TO-14
Cyclohexane	ND	170	"							TO-14
Heptane	ND	210	"							TO-14
Hexane	ND	180	"							TO-14
Dibromochloromethane	ND	430	"							TO-14
1,2-Dibromoethane (EDB)	ND	390	"							TO-14
1,2-Dichlorobenzene	ND	310	"							TO-14
1,3-Dichlorobenzene	ND	310	"							TO-14
1,4-Dichlorobenzene	ND	310	"							TO-14
Dichlorodifluoromethane	ND	250	"							TO-14
1,1-Dichloroethane	ND	210	"							TO-14
1,2-Dichloroethane	ND	210	"							TO-14
1,1-Dichloroethene	ND	200	"							TO-14
cis-1,2-Dichloroethene	ND	200	"							TO-14
trans-1,2-Dichloroethene	ND	200	"							TO-14
1,2-Dichloropropane	ND	240	"							TO-14
cis-1,3-Dichloropropene	ND	230	"							TO-14
trans-1,3-Dichloropropene	ND	230	"							TO-14
4-Ethyltoluene	ND	250	"							TO-14
Methylene chloride	ND	180	"							TO-14
Styrene	ND	220	"							TO-14
1,1,2,2-Tetrachloroethane	ND	350	"							TO-14
Tetrahydrofuran	ND	150	"							TO-14

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Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/12/16 17:03
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**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101135 - Canister Analysis**

**Blank (6101135-BLK1)**

Prepared & Analyzed: 10/11/16

Tetrachloroethene	ND	350	ug/m <sup>3</sup> Air							TO-14
1,1,2-Trichloroethane	ND	280	"							TO-14
1,1,1-Trichloroethane	ND	280	"							TO-14
Trichloroethene	ND	270	"							TO-14
Trichlorofluoromethane	ND	290	"							TO-14
1,3,5-Trimethylbenzene	ND	250	"							TO-14
1,2,4-Trimethylbenzene	ND	250	"							TO-14
Vinyl acetate	ND	180	"							TO-14
Vinyl chloride	ND	130	"							TO-14
1,4-Dioxane	ND	180	"							TO-14
2-Butanone (MEK)	ND	150	"							TO-14
Methyl isobutyl ketone	ND	210	"							TO-14
Benzene	ND	160	"							TO-14
Toluene	ND	190	"							TO-14
Ethylbenzene	ND	220	"							TO-14
m,p-Xylene	ND	220	"							TO-14
o-Xylene	ND	220	"							TO-14

**Duplicate (6101135-DUP1)**

Source: T162496-01

Prepared & Analyzed: 10/11/16

Acetone	ND	120	ug/m <sup>3</sup> Air		ND			30		TO-14
1,3-Butadiene	ND	110	"		ND			30		TO-14
Carbon Disulfide	ND	160	"		ND			30		TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"		ND			30		TO-14
Isopropyl alcohol	ND	130	"		ND			30		TO-14
Bromodichloromethane	ND	340	"		ND			30		TO-14
Bromoform	ND	530	"		ND			30		TO-14
Bromomethane	ND	200	"		ND			30		TO-14
Carbon tetrachloride	ND	320	"		ND			30		TO-14
Chlorobenzene	ND	230	"		ND			30		TO-14
Chloroethane	ND	130	"		ND			30		TO-14
Chloroform	ND	250	"		ND			30		TO-14
Chloromethane	ND	110	"		ND			30		TO-14
Cyclohexane	ND	170	"		ND			30		TO-14
Heptane	ND	210	"		ND			30		TO-14
Hexane	ND	180	"		ND			30		TO-14

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Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/12/16 17:03

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101135 - Canister Analysis**

**Duplicate (6101135-DUP1)**

**Source: T162496-01**

**Prepared & Analyzed: 10/11/16**

Dibromochloromethane	ND	430	ug/m <sup>3</sup> Air		ND				30	TO-14
1,2-Dibromoethane (EDB)	ND	390	"		ND				30	TO-14
1,2-Dichlorobenzene	ND	310	"		ND				30	TO-14
1,3-Dichlorobenzene	ND	310	"		ND				30	TO-14
1,4-Dichlorobenzene	ND	310	"		ND				30	TO-14
Dichlorodifluoromethane	ND	250	"		ND				30	TO-14
1,1-Dichloroethane	ND	210	"		ND				30	TO-14
1,2-Dichloroethane	ND	210	"		ND				30	TO-14
1,1-Dichloroethene	ND	200	"		ND				30	TO-14
cis-1,2-Dichloroethene	ND	200	"		ND				30	TO-14
trans-1,2-Dichloroethene	ND	200	"		ND				30	TO-14
1,2-Dichloropropane	ND	240	"		ND				30	TO-14
cis-1,3-Dichloropropene	ND	230	"		ND				30	TO-14
trans-1,3-Dichloropropene	ND	230	"		ND				30	TO-14
4-Ethyltoluene	ND	250	"		ND				30	TO-14
Methylene chloride	ND	180	"		ND				30	TO-14
Styrene	ND	220	"		ND				30	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"		ND				30	TO-14
Tetrahydrofuran	ND	150	"		ND				30	TO-14
Tetrachloroethene	ND	350	"		ND				30	TO-14
1,1,2-Trichloroethane	ND	280	"		ND				30	TO-14
1,1,1-Trichloroethane	ND	280	"		ND				30	TO-14
Trichloroethene	ND	270	"		ND				30	TO-14
Trichlorofluoromethane	ND	290	"		ND				30	TO-14
1,3,5-Trimethylbenzene	ND	250	"		ND				30	TO-14
1,2,4-Trimethylbenzene	ND	250	"		ND				30	TO-14
Vinyl acetate	ND	180	"		ND				30	TO-14
Vinyl chloride	ND	130	"		ND				30	TO-14
1,4-Dioxane	ND	180	"		ND				30	TO-14
2-Butanone (MEK)	ND	150	"		ND				30	TO-14
Methyl isobutyl ketone	ND	210	"		ND				30	TO-14
Benzene	66.4	160	"		63.0			5.27	30	TO-14
Toluene	95.2	190	"		79.3			18.2	30	TO-14
Ethylbenzene	ND	220	"		ND				30	TO-14
m,p-Xylene	ND	220	"		ND				30	TO-14
o-Xylene	ND	220	"		ND				30	TO-14

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	<b>Reported:</b> 10/12/16 17:03
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**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101135 - Canister Analysis**

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/12/16 17:03

### Notes and Definitions

- TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Katherine RunningCrane, Project Manager





## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: TIG2812  
 Client Name: ERG Project: NUGGET MALL

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_  
 Lab Received by: BZIAN Date/Time Lab Received: 10/11/16 11:40

Total number of coolers received:

Temperature: Cooler #1	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>

- Custody seals intact on cooler/sample  Yes  No\*  N/A
- Sample containers intact  Yes  No\*
- Sample labels match Chain of Custody IDs  Yes  No\*
- Total number of containers received match COC  Yes  No\*
- Proper containers received for analyses requested on COC  Yes  No\*
- Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A
- Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: \_\_\_\_\_

**Comments:**  
 \_\_\_\_\_  
 \_\_\_\_\_



<b>Project Name: ALASKA</b>			
<b>Company: ERG</b>		<b>Name: BEN WELLS</b>	
		<b>Phone: (415)381-6574</b>	
Item	Quantity	Unit	
2 oz Jars 24/CS			
4 oz Jars 24/CS	2	CASES	
8 oz Jars 12/CS			
40 ml unpreserved VOAs 100/box			
40 ml HCL-preserved VOAs 72/box	1	BOX	
250 ml Poly 24/CS			
1 Liter Poly 12/CS			
500 ml Poly 16/CS			
500 ml Amber Bottle Wide 12/CS			
1 Liter Amber Bottle 12/CS			
1 Gallon Poly 4/box			
5035 kits:(2)Sodium Bisulfate VOAs 72/box	50		
	(1) Methanol VOA 72/box	25	
	(1)Syringe 50/pack	25	
Lock-N-Load Handle 1/pack	1		
Tedlar Bags 10/pack			
Manifold, Inst. Sampler, Variable Sampler	4-MANIFOLDS (150), 8-SAMPLERS (24 HR)		
Sub Slab Insert w/ washer & N/F			
Soil Gas SS 16" Drop Tubes			
Gas Extraction Fittings			
Soil Gas Filters			
		# SENT	USED
		UNUSED	
<b>Batch Certified Summa Canisters</b>	400cc		
	1L	5 (NITRO)	1
	3L		
	6L	1 (PURGE)	CHARGE 2-P
<b>Individually Certified Summa Canisters</b>	400cc		
	1L	21	4
	3L	8	
	6L		
Cooler (Sm, Med, Lrg) Number & Quantity	1-LRG, 1-MED		
Swagelok Fittings: Nuts/Ferrules, Ts	21-NUTS/FERRULES CHARGE 4		
Other: Poly Tube, Valves, Silicon Tape, etc.			
<b>Prepared By: DAN M.</b>	<b>Date:</b>	<b>9/28/16</b>	
<b>Reviewed By:</b>	<b>Date :</b>		

# Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 10/11/2016

User Name: Charon, Brian

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0124	1000cc: 1000cc Summa	0124	Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
0246	1000cc: 1000cc Summa	0246	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0341	1000cc: 1000cc Summa	0341	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0376	1000cc: 1000cc Summa	0376	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
6006	6 L: 6 L Summa	6006	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
607	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells

## Katherine RunningCrane

---

**From:** Yola Bayram [ybayram@environmentalrg.com]  
**Sent:** Tuesday, October 11, 2016 1:56 PM  
**To:** 'Katherine Shields'  
**Cc:** bwells@environmentalrg.com  
**Subject:** COC for samples to be rushed  
**Attachments:** image2.jpg; \_Certification\_.htm

Please rush SS1, SS3....24hr TAT please.

Thanks!

Yola Bayram  
Geologist  
510-671-2088 - Direct  
313-204-8477 - cell

---

No virus found in this message.

Checked by AVG - [www.avg.com](http://www.avg.com)

Version: 2016.0.7294 / Virus Database: 4656/13090 - Release Date: 09/26/16

Internal Virus Database is out of date.

**WORK ORDER**

**T162512**

**Client:** ERG-Environmental Resource Group  
**Project:** Nugget Mall

**Project Manager:** Katherine RunningCrane  
**Project Number:** [none]

**Report To:**

ERG-Environmental Resource Group  
 Ben Wells  
 1038 Redwood Hwy Suite 1  
 Mill Valley, CA 94941

Date Due: 10/18/16 17:00 (5 day TAT)

Received By: Brian Charon

Date Received: 10/11/16 11:40

Logged In By: Brian Charon

Date Logged In: 10/11/16 11:53

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	No		

Analysis	Due	TAT	Expires	Comments
<b>T162512-01 SV7 [Air] Sampled 10/05/16 16:00 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/18/16 15:00	5	11/04/16 16:00	
<b>T162512-02 SV2 [Air] Sampled 10/05/16 17:35 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/13/16 15:00	1	11/04/16 17:35	
<b>T162512-03 SS3 [Air] Sampled 10/06/16 10:05 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/12/16 15:00	1	11/05/16 10:05	
<b>T162512-04 SS1 [Air] Sampled 10/06/16 11:21 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/12/16 15:00	1	11/05/16 11:21	



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

18 October 2016

Ben Wells  
ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley, CA 94941  
RE: Nugget Mall

Enclosed are the results of analyses for samples received by the laboratory on 10/11/16 11:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane  
Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5C-UP	T162513-01	Air	10/05/16 09:00	10/11/16 11:40
550C	T162513-02	Air	10/05/16 10:10	10/11/16 11:40
550D	T162513-03	Air	10/05/16 10:20	10/11/16 11:40
580C	T162513-04	Air	10/05/16 10:40	10/11/16 11:40
585C	T162513-05	Air	10/05/16 09:00	10/11/16 11:40
595C	T162513-06	Air	10/05/16 11:00	10/11/16 11:40
595D	T162513-07	Air	10/05/16 11:10	10/11/16 11:40
DUP1	T162513-08	Air	10/05/16 11:11	10/11/16 11:40



ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**DETECTIONS SUMMARY**

**Sample ID:** 5C-UP **Laboratory ID:** T162513-01

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No Results Detected

**Sample ID:** 550C **Laboratory ID:** T162513-02

---

No Results Detected

**Sample ID:** 550D **Laboratory ID:** T162513-03

---

No Results Detected

**Sample ID:** 580C **Laboratory ID:** T162513-04

---

No Results Detected

**Sample ID:** 585C **Laboratory ID:** T162513-05

---

No Results Detected

**Sample ID:** 595C **Laboratory ID:** T162513-06

---

No Results Detected

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**Sample ID:** 595D

**Laboratory ID:** T162513-07

No Results Detected

**Sample ID:** DUP1

**Laboratory ID:** T162513-08

No Results Detected

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:47

**5C-UP**  
**T162513-01(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	"
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"	"
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	"
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	"
Chloromethane	ND	0.47	11	"	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"	"
Hexane	ND	0.44	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:47

**5C-UP**  
**T162513-01(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			118 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:47

**550C**

**T162513-02(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	"
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"	"
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	"
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	"
Chloromethane	ND	0.47	11	"	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"	"
Hexane	ND	0.44	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**550C**

**T162513-02(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			115 %	40-160		"	"	"	"	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:47

**550D**

**T162513-03(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*



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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:47

**550D**

**T162513-03(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			114 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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*Katherine HummingCrane*



ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:47

**580C**

**T162513-04(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	"
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"	"
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	"
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	"
Chloromethane	ND	0.47	11	"	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"	"
Hexane	ND	0.44	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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*Katherine RunningCrane*



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 16:47
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**580C**

**T162513-04(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			115 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**585C**

**T162513-05(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*



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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:47

**585C**

**T162513-05(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			116 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:47

**595C**

**T162513-06(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	"
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"	"
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	"
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	"
Chloromethane	ND	0.47	11	"	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"	"
Hexane	ND	0.44	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	"

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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**595C**

**T162513-06(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			122 %	40-160		"	"	"	"	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**595D**

**T162513-07(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**595D**

**T162513-07(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			116 %	40-160		"	"	"	"	



ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:47

**DUP1**  
**T162513-08(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**DUP1**  
**T162513-08(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1	6101719	10/17/16	10/18/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			116 %	40-160	"	"	"	"	"	



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:47

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101719 - Canister Analysis**

**Blank (6101719-BLK1)**

Prepared: 10/17/16 Analyzed: 10/18/16

<i>Surrogate: 4-Bromofluorobenzene</i>	52.0			ug/m <sup>3</sup> Air	45.3		115	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.30	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.56	13	"							
Bromodichloromethane	ND	0.15	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.54	4.0	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.099	4.7	"							
Chloroethane	ND	0.36	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.47	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.44	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	6.1	"							
1,3-Dichlorobenzene	ND	0.44	6.1	"							
1,4-Dichlorobenzene	ND	0.44	6.1	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethane	ND	0.28	4.0	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:47

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101719 - Canister Analysis**

**Blank (6101719-BLK1)**

Prepared: 10/17/16 Analyzed: 10/18/16

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m <sup>3</sup> Air							
trans-1,2-Dichloroethene	ND	0.22	4.0	"							
1,2-Dichloropropane	ND	0.13	4.7	"							
cis-1,3-Dichloropropene	ND	0.21	4.6	"							
trans-1,3-Dichloropropene	ND	0.21	4.6	"							
4-Ethyltoluene	ND	0.25	5.0	"							
Methylene chloride	ND	0.079	3.5	"							
Styrene	ND	0.19	4.3	"							
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"							
Tetrahydrofuran	ND	0.25	3.0	"							
Tetrachloroethene	ND	0.21	6.9	"							
1,1,2-Trichloroethane	ND	0.19	5.6	"							
1,1,1-Trichloroethane	ND	0.24	5.6	"							
Trichloroethene	ND	0.21	5.5	"							
Trichlorofluoromethane	ND	0.24	5.7	"							
1,3,5-Trimethylbenzene	ND	0.49	5.0	"							
1,2,4-Trimethylbenzene	ND	0.33	5.0	"							
Vinyl acetate	ND	0.18	3.6	"							
Vinyl chloride	ND	0.052	2.6	"							
1,4-Dioxane	ND	0.97	18	"							
2-Butanone (MEK)	ND	0.45	15	"							
Methyl isobutyl ketone	ND	0.14	42	"							
Benzene	ND	0.14	3.3	"							
Toluene	ND	0.14	3.8	"							
Ethylbenzene	ND	0.14	4.4	"							
m,p-Xylene	ND	0.20	8.8	"							
o-Xylene	ND	0.085	4.4	"							

SunStar Laboratories, Inc.

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*Katherine HummingCrane*



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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:47

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101719 - Canister Analysis**

**Duplicate (6101719-DUP1)**

**Source: T162513-08**

Prepared: 10/17/16 Analyzed: 10/18/16

<i>Surrogate: 4-Bromofluorobenzene</i>	53.3			ug/m <sup>3</sup> Air	45.3		118	40-160			
Acetone	ND	0.49	12	"		ND				30	
1,3-Butadiene	ND	0.30	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	ND	0.56	13	"		ND				30	
Bromodichloromethane	ND	0.15	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.54	4.0	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.099	4.7	"		ND				30	
Chloroethane	ND	0.36	2.7	"		ND				30	
Chloroform	ND	0.15	5.0	"		ND				30	
Chloromethane	ND	0.47	11	"		ND				30	
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	ND	0.44	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	6.1	"		ND				30	
1,3-Dichlorobenzene	ND	0.44	6.1	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	6.1	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:47

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101719 - Canister Analysis**

Duplicate (6101719-DUP1)	Source: T162513-08			Prepared: 10/17/16 Analyzed: 10/18/16		
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m <sup>3</sup> Air	ND	30
trans-1,2-Dichloroethene	ND	0.22	4.0	"	ND	30
1,2-Dichloropropane	ND	0.13	4.7	"	ND	30
cis-1,3-Dichloropropene	ND	0.21	4.6	"	ND	30
trans-1,3-Dichloropropene	ND	0.21	4.6	"	ND	30
4-Ethyltoluene	ND	0.25	5.0	"	ND	30
Methylene chloride	ND	0.079	3.5	"	ND	30
Styrene	ND	0.19	4.3	"	ND	30
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	ND	30
Tetrahydrofuran	ND	0.25	3.0	"	ND	30
Tetrachloroethene	ND	0.21	6.9	"	ND	30
1,1,2-Trichloroethane	ND	0.19	5.6	"	ND	30
1,1,1-Trichloroethane	ND	0.24	5.6	"	ND	30
Trichloroethene	ND	0.21	5.5	"	ND	30
Trichlorofluoromethane	ND	0.24	5.7	"	ND	30
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	ND	30
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	ND	30
Vinyl acetate	ND	0.18	3.6	"	ND	30
Vinyl chloride	ND	0.052	2.6	"	ND	30
1,4-Dioxane	ND	0.97	18	"	ND	30
2-Butanone (MEK)	ND	0.45	15	"	ND	30
Methyl isobutyl ketone	ND	0.14	42	"	ND	30
Benzene	ND	0.14	3.3	"	ND	30
Toluene	ND	0.14	3.8	"	ND	30
Ethylbenzene	ND	0.14	4.4	"	ND	30
m,p-Xylene	ND	0.20	8.8	"	ND	30
o-Xylene	ND	0.085	4.4	"	ND	30

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

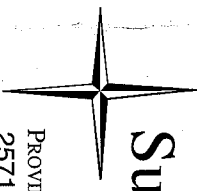
**Reported:**  
10/18/16 16:47

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# AIR LABORATORY

## Chain of Custody Record



**SunStar Laboratories, Inc.**  
 PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE  
 25712 Commercentre Drive, Lake Forest, CA 92630  
 949-297-5020

Client: ERG  
 Address: 1038 Redwood Hwy 1  
 Phone: 415-381-6574 Fax: \_\_\_\_\_  
 Project Manager: Ben Wells

Date: 10-5-16 Page: 1 of 1  
 Project Name: Nugget Mail  
 Collector: Y Baylorn Client Project #: \_\_\_\_\_  
 Batch #: T162513 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type: Soil Gas / Food / Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	Summa Can # / Comments	Laboratory ID #
5C-0P	10-5-16	1035	1000	IA	Summa	30	2.5			X				SSAT-5032	01
550C		1010	1015			30	4			X				5044	02
550D		1020	1015			30	2.5			X				5052	03
580C		1640	1045			30	5			X				5020	04
585C		900	905			30	2.5			X				5031	05
545C		100	115			30	2.5			X				5016	06
545D		110	116			30	2.5			X				5059	07
Dup1		111	117			28	3.5			X				5014	08
Relinquished by: (signature) _____ Date / Time <u>10-6-16</u> <u>1630</u> Received by: (signature) _____ Date / Time _____ Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____ Relinquished by: (signature) _____ Date / Time <u>10-11-16</u> <u>1140</u> Received by: (signature) _____ Date / Time _____ Relinquished by: (signature) _____ Date / Time <u>10-11-16</u> <u>1140</u> Received by: (signature) _____ Date / Time _____															
Chain of Custody seals <input checked="" type="checkbox"/> DNA Seals intact? <input checked="" type="checkbox"/> Y/N/ <input checked="" type="checkbox"/> N Received good condition/cold _____ Turn around time: <u>Std</u>															
Total # of containers _____ Notes _____															

\* TO-15 SIM analysis available upon prior notification. (Pre-certified Summa cans needed)

COCAL 145017





## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: TL62513

Client Name: ERG Project: Nugget Mall

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: Dan M. Date/Time Lab Received: 10-11-16 1140

Total number of coolers received: 0

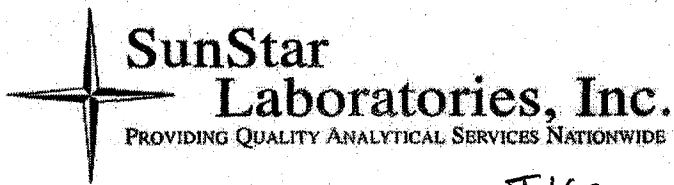
Temperature:	Cooler #1	—	°C +/- the CF (- 0.2°C) =	—	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature

<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>	Within criteria?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>

Custody seals intact on cooler/sample	<input type="checkbox"/> Yes	<input type="checkbox"/> No*	<input checked="" type="checkbox"/> N/A
Sample containers intact	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*	
Sample labels match Chain of Custody IDs	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*	
Total number of containers received match COC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*	
Proper containers received for analyses requested on COC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*	
Proper preservative indicated on COC/containers for analyses requested	<input type="checkbox"/> Yes	<input type="checkbox"/> No*	<input checked="" type="checkbox"/> N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No*	

\* Complete Non-Conformance Receiving Sheet if checked      Cooler/Sample Review - Initials and date: DM 10-11-16

**Comments:**  
 \_\_\_\_\_  
 \_\_\_\_\_



T162513

<b>Project Name: ALASKA</b>			
<b>Company: ERG</b>		<b>Name: BEN WELLS</b>	
		<b>Phone: (415)381-6574</b>	
Item	Quantity	Unit	
2 oz Jars 24/CS			
4 oz Jars 24/CS	2	CASES	
8 oz Jars 12/CS			
40 ml unpreserved VOAs 100/box			
40 ml HCL-preserved VOAs 72/box	1	BOX	
250 ml Poly 24/CS			
1 Liter Poly 12/CS			
500 ml Poly 16/CS			
500 ml Amber Bottle Wide 12/CS			
1 Liter Amber Bottle 12/CS			
1 Gallon Poly 4/box			
5035 kits:(2)Sodium Bisulfate VOAs 72/box	50		
	(1) Methanol VOA 72/box	25	
	(1)Syringe 50/pack	25	
Lock-N-Load Handle 1/pack	1		
Tedlar Bags 10/pack			
Manifold, Inst. Sampler, Variable Sampler	4-MANIFOLDS (150), 8-SAMPLERS (24 HR)		
Sub Slab Insert w/ washer & N/F	Charge for 8 samplers		
Soil Gas SS 16" Drop Tubes			
Gas Extraction Fittings			
Soil Gas Filters			
	# SENT	USED	UNUSED
Batch Certified Summa Canisters	400cc		
	1L	5 (NITRO)	
	3L		
	6L	1 (PURGE)	
Individually Certified Summa Canisters	400cc		
	1L	21	
	3L	8	8
	6L		
Cooler (Sm, Med, Lrg) Number & Quantity	1-LRG, 1-MED		
Swagelok Fittings: Nuts/Ferrules, Ts	21-NUTS/FERRULES		
Other: Poly Tube, Valves, Silicon Tape, etc.			
Prepared By: DAN M.	Date:	9/28/16	
Reviewed By:	Date :		

# Asset Check-In Receipt

T 162513

SunStar Laboratories Inc.

Check-In Date: 10/11/2016

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
4006	Variable Sampler: Variable Sampler	4006	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
4009	Variable Sampler: Variable Sampler	4009	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
4015	Variable Sampler: Variable Sampler	4015	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
4020	Variable Sampler: Variable Sampler	4020	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
4030	Variable Sampler: Variable Sampler	4030	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
4039	Variable Sampler: Variable Sampler	4039	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
4042	Variable Sampler: Variable Sampler	4042	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
4044	Variable Sampler: Variable Sampler	4044	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
5014	3.2L: 3.2L Entech Summa	5014	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
5016	3.2L: 3.2L Entech Summa	5016	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
5020	3.2L: 3.2L Entech Summa	5020	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
5031	3.2L: 3.2L Entech Summa	5031	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
5032	3.2L: 3.2L Entech Summa	5032	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
5044	3.2L: 3.2L Entech Summa	5044	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
5052	3.2L: 3.2L Entech Summa	5052	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
5059	3.2L: 3.2L Entech Summa	5059	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells



**WORK ORDER**

**T162513**

**Client:** ERG-Environmental Resource Group  
**Project:** Nugget Mall

**Project Manager:** Katherine RunningCrane  
**Project Number:** [none]

**Report To:**

ERG-Environmental Resource Group  
 Ben Wells  
 1038 Redwood Hwy Suite 1  
 Mill Valley, CA 94941

Date Due: 10/18/16 17:00 (5 day TAT)

Received By: Dan Marteski

Date Received: 10/11/16 11:40

Logged In By: Dan Marteski

Date Logged In: 10/11/16 11:57

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	No		

Analysis	Due	TAT	Expires	Comments
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**T162513-01 5C-UP [Air] Sampled 10/05/16 09:00 (GMT-08:00) Pacific Time (US &**

TO-15	10/18/16 15:00	5	11/04/16 09:00
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**T162513-02 550C [Air] Sampled 10/05/16 10:10 (GMT-08:00) Pacific Time (US &**

TO-15	10/18/16 15:00	5	11/04/16 10:10
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**T162513-03 550D [Air] Sampled 10/05/16 10:20 (GMT-08:00) Pacific Time (US &**

TO-15	10/18/16 15:00	5	11/04/16 10:20
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**T162513-04 580C [Air] Sampled 10/05/16 10:40 (GMT-08:00) Pacific Time (US &**

TO-15	10/18/16 15:00	5	11/04/16 10:40
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**T162513-05 585C [Air] Sampled 10/05/16 09:00 (GMT-08:00) Pacific Time (US &**

TO-15	10/18/16 15:00	5	11/04/16 09:00
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**T162513-06 595C [Air] Sampled 10/05/16 11:00 (GMT-08:00) Pacific Time (US &**

TO-15	10/18/16 15:00	5	11/04/16 11:00
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**T162513-07 595D [Air] Sampled 10/05/16 11:10 (GMT-08:00) Pacific Time (US &**

TO-15	10/18/16 15:00	5	11/04/16 11:10
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**WORK ORDER**

**T162513**

<b>Client:</b> ERG-Environmental Resource Group	<b>Project Manager:</b> Katherine RunningCrane
<b>Project:</b> Nugget Mall	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
<b>T162513-08 DUP1 [Air] Sampled 10/05/16 11:11 (GMT-08:00) Pacific Time (US</b>				
<b>&amp;</b>				
TO-15	10/18/16 15:00	5	11/04/16 11:11	





25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

18 October 2016

Ben Wells  
ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley, CA 94941  
RE: Nugget Mall

Enclosed are the results of analyses for samples received by the laboratory on 10/11/16 11:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane  
Project Manager





25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

**Reported:**  
 10/18/16 17:27

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C3-4.5	T162514-01	Soil	10/06/16 11:30	10/11/16 11:40
C3-10	T162514-02	Soil	10/06/16 11:45	10/11/16 11:40
C3-15	T162514-03	Soil	10/06/16 12:00	10/11/16 11:40
C3-GW	T162514-04	Water	10/06/16 12:30	10/11/16 11:40
C2-4.5	T162514-05	Soil	10/06/16 16:40	10/11/16 11:40
C2-10.5	T162514-06	Soil	10/06/16 16:50	10/11/16 11:40
C2-15	T162514-07	Soil	10/06/16 17:00	10/11/16 11:40
C7-3.5	T162514-08	Soil	10/06/16 14:15	10/11/16 11:40
C7-10	T162514-09	Soil	10/06/16 14:30	10/11/16 11:40
C7-15	T162514-10	Soil	10/06/16 15:00	10/11/16 11:40
C7-GW	T162514-11	Water	10/06/16 15:15	10/11/16 11:40
C6-5	T162514-12	Soil	10/05/16 11:30	10/11/16 11:40
C6-10	T162514-13	Soil	10/05/16 11:45	10/11/16 11:40
C6-15	T162514-14	Soil	10/05/16 12:00	10/11/16 11:40
C6-GW	T162514-15	Water	10/05/16 12:30	10/11/16 11:40
C1-5.5	T162514-16	Soil	10/04/16 12:15	10/11/16 11:40
C1-6.5	T162514-17	Soil	10/04/16 12:30	10/11/16 11:40
C1-13	T162514-18	Soil	10/04/16 13:00	10/11/16 11:40
C4-5	T162514-19	Soil	10/06/16 08:00	10/11/16 11:40
C4-10	T162514-20	Soil	10/06/16 08:20	10/11/16 11:40
C4-15	T162514-21	Soil	10/06/16 08:40	10/11/16 11:40
C4-GW	T162514-22	Water	10/06/16 09:00	10/11/16 11:40
C5-3	T162514-23	Soil	10/05/16 17:20	10/11/16 11:40
C5-10	T162514-24	Soil	10/05/16 17:35	10/11/16 11:40
C5-15	T162514-25	Soil	10/05/16 17:50	10/11/16 11:40
C5-GW	T162514-26	Water	10/05/16 18:00	10/11/16 11:40

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

**Reported:**  
 10/18/16 17:27

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C8-GW	T162514-27	Water	10/05/16 14:00	10/11/16 11:40
C9-GW	T162514-28	Water	10/05/16 16:15	10/11/16 11:40
T1-5	T162514-29	Soil	10/07/16 08:30	10/11/16 11:40
T1-10	T162514-30	Soil	10/07/16 08:45	10/11/16 11:40
T1-GW	T162514-31	Water	10/07/16 09:00	10/11/16 11:40
T1B-5	T162514-32	Soil	10/07/16 09:30	10/11/16 11:40
T1B-10	T162514-33	Soil	10/07/16 09:45	10/11/16 11:40
T2-2.5	T162514-34	Soil	10/07/16 10:00	10/11/16 11:40
T2-5	T162514-35	Soil	10/07/16 10:15	10/11/16 11:40
MW-1	T162514-36	Water	10/02/16 17:56	10/11/16 11:40
MW-2	T162514-37	Water	10/02/16 17:13	10/11/16 11:40
MW-3	T162514-38	Water	10/02/16 16:44	10/11/16 11:40
DUP1	T162514-39	Water	10/05/16 12:55	10/11/16 11:40

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**DETECTIONS SUMMARY**

**Sample ID:** C3-4.5 **Laboratory ID:** T162514-01

No Results Detected

**Sample ID:** C3-10 **Laboratory ID:** T162514-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
cis-1,2-Dichloroethene	45	4.0		ug/kg	EPA 8260B/5035	

**Sample ID:** C3-15 **Laboratory ID:** T162514-03

No Results Detected

**Sample ID:** C3-GW **Laboratory ID:** T162514-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
cis-1,2-Dichloroethene	120	1.2		ug/l	EPA 8260B	
trans-1,2-Dichloroethene	1.9	1.2		ug/l	EPA 8260B	
Vinyl chloride	8.5	1.2		ug/l	EPA 8260B	

**Sample ID:** C2-4.5 **Laboratory ID:** T162514-05

No Results Detected

**Sample ID:** C2-10.5 **Laboratory ID:** T162514-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
cis-1,2-Dichloroethene	72	4.0		ug/kg	EPA 8260B/5035	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**Sample ID:** C2-15

**Laboratory ID:** T162514-07

No Results Detected

**Sample ID:** C7-3.5

**Laboratory ID:** T162514-08

No Results Detected

**Sample ID:** C7-10

**Laboratory ID:** T162514-09

No Results Detected

**Sample ID:** C7-15

**Laboratory ID:** T162514-10

No Results Detected

**Sample ID:** C7-GW

**Laboratory ID:** T162514-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
cis-1,2-Dichloroethene	6.4	1.2		ug/l	EPA 8260B	

**Sample ID:** C6-5

**Laboratory ID:** T162514-12

No Results Detected

**Sample ID:** C6-10

**Laboratory ID:** T162514-13

No Results Detected

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**Sample ID:** C6-15

**Laboratory ID:** T162514-14

No Results Detected

**Sample ID:** C6-GW

**Laboratory ID:** T162514-15

No Results Detected

**Sample ID:** C1-5.5

**Laboratory ID:** T162514-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	5.4	4.5	ug/kg	EPA 8260B/5035	AO-1

**Sample ID:** C1-6.5

**Laboratory ID:** T162514-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
cis-1,2-Dichloroethene	4.7	4.0	ug/kg	EPA 8260B/5035	

**Sample ID:** C1-13

**Laboratory ID:** T162514-18

No Results Detected

**Sample ID:** C4-5

**Laboratory ID:** T162514-19

No Results Detected

**Sample ID:** C4-10

**Laboratory ID:** T162514-20

No Results Detected

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**Sample ID:** C4-15

**Laboratory ID:** T162514-21

No Results Detected

**Sample ID:** C4-GW

**Laboratory ID:** T162514-22

No Results Detected

**Sample ID:** C5-3

**Laboratory ID:** T162514-23

No Results Detected

**Sample ID:** C5-10

**Laboratory ID:** T162514-24

No Results Detected

**Sample ID:** C5-15

**Laboratory ID:** T162514-25

No Results Detected

**Sample ID:** C5-GW

**Laboratory ID:** T162514-26

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
cis-1,2-Dichloroethene	26	1.2	ug/l	EPA 8260B	
trans-1,2-Dichloroethene	1.2	1.2	ug/l	EPA 8260B	

**Sample ID:** C8-GW

**Laboratory ID:** T162514-27

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**Sample ID:** C8-GW

**Laboratory ID:** T162514-27

No Results Detected

**Sample ID:** C9-GW

**Laboratory ID:** T162514-28

No Results Detected

**Sample ID:** T1-5

**Laboratory ID:** T162514-29

No Results Detected

**Sample ID:** T1-10

**Laboratory ID:** T162514-30

No Results Detected

**Sample ID:** T1-GW

**Laboratory ID:** T162514-31

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Diesel Range Hydrocarbons	320	50		ug/l	EPA 8015C	

**Sample ID:** T1B-5

**Laboratory ID:** T162514-32

No Results Detected

**Sample ID:** T1B-10

**Laboratory ID:** T162514-33

No Results Detected

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**Sample ID:** T2-2.5

**Laboratory ID:** T162514-34

No Results Detected

**Sample ID:** T2-5

**Laboratory ID:** T162514-35

No Results Detected

**Sample ID:** MW-1

**Laboratory ID:** T162514-36

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
cis-1,2-Dichloroethene	68	1.2	ug/l	EPA 8260B	
trans-1,2-Dichloroethene	3.2	1.2	ug/l	EPA 8260B	
Trichloroethene	2.2	1.2	ug/l	EPA 8260B	

**Sample ID:** MW-2

**Laboratory ID:** T162514-37

No Results Detected

**Sample ID:** MW-3

**Laboratory ID:** T162514-38

No Results Detected

**Sample ID:** DUP1

**Laboratory ID:** T162514-39

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
cis-1,2-Dichloroethene	130	1.2	ug/l	EPA 8260B	
trans-1,2-Dichloroethene	1.8	1.2	ug/l	EPA 8260B	
Vinyl chloride	8.9	1.2	ug/l	EPA 8260B	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

Katherine RunningCrane, Project Manager





25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

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SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

---

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 17:27
---	--	-----------------------------

**C3-4.5**  
**T162514-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.5	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	9.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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**C3-4.5**  
**T162514-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.5	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.1 %		85.5-116		"	"	"	"
Surrogate: 4-Bromofluorobenzene		88.5 %		81.2-123		"	"	"	"
Surrogate: Dibromofluoromethane		110 %		95.7-135		"	"	"	"

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**C3-10**  
**T162514-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.0	"	"	"	"	"	"	"
Chloroethane	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.0	"	"	"	"	"	"	"
Chloromethane	ND	4.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>45</b>	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.0	"	"	"	"	"	"	"
Methylene chloride	ND	4.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.0	"	"	"	"	"	"	"

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**C3-10**  
**T162514-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.0	"	"	"	"	"	"	
Trichloroethene	ND	4.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.0	"	"	"	"	"	"	
Vinyl chloride	ND	4.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.9 %		85.5-116		"	"	"	"
Surrogate: 4-Bromofluorobenzene		105 %		81.2-123		"	"	"	"
Surrogate: Dibromofluoromethane		134 %		95.7-135		"	"	"	"

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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 17:27
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**C3-15**  
**T162514-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.4	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	"
Chlorobenzene	ND	4.4	"	"	"	"	"	"	"
Chloroethane	ND	4.4	"	"	"	"	"	"	"
Chloroform	ND	4.4	"	"	"	"	"	"	"
Chloromethane	ND	4.4	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.9	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.4	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	"
Methylene chloride	ND	4.4	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	"

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**C3-15**  
**T162514-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.4	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	"
Trichloroethene	ND	4.4	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	"
Vinyl chloride	ND	4.4	"	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		97.2 %		85.5-116	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %		81.2-123	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		133 %		95.7-135	"	"	"	"	"

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**C3-GW  
T162514-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>120</b>	1.2	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>1.9</b>	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**C3-GW  
 T162514-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>8.5</b>	1.2	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.2 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %		81-136	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.1 %		88.8-117	"	"	"	"	

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**C2-4.5**  
**T162514-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.2	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.2	"	"	"	"	"	"	"
Chlorobenzene	ND	4.2	"	"	"	"	"	"	"
Chloroethane	ND	4.2	"	"	"	"	"	"	"
Chloroform	ND	4.2	"	"	"	"	"	"	"
Chloromethane	ND	4.2	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.2	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.2	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.2	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.4	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.2	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.2	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.2	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.2	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.2	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.2	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.2	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.2	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.2	"	"	"	"	"	"	"
Methylene chloride	ND	4.2	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.2	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager



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**C2-4.5**  
**T162514-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.2	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.2	"	"	"	"	"	"	
Trichloroethene	ND	4.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.2	"	"	"	"	"	"	
Vinyl chloride	ND	4.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.3 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		140 %		95.7-135	"	"	"	"	S-GC

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**C2-10.5**  
**T162514-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.0	"	"	"	"	"	"	"
Chloroethane	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.0	"	"	"	"	"	"	"
Chloromethane	ND	4.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.1	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>72</b>	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.0	"	"	"	"	"	"	"
Methylene chloride	ND	4.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.0	"	"	"	"	"	"	"

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**C2-10.5**  
**T162514-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.0	"	"	"	"	"	"	
Trichloroethene	ND	4.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.0	"	"	"	"	"	"	
Vinyl chloride	ND	4.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.0 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		138 %		95.7-135	"	"	"	"	S-GC

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**C2-15**  
**T162514-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.3	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.3	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.3	"	"	"	"	"	"	"
Chlorobenzene	ND	4.3	"	"	"	"	"	"	"
Chloroethane	ND	4.3	"	"	"	"	"	"	"
Chloroform	ND	4.3	"	"	"	"	"	"	"
Chloromethane	ND	4.3	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.3	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.7	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.3	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.3	"	"	"	"	"	"	"
Methylene chloride	ND	4.3	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.3	"	"	"	"	"	"	"

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**C2-15**  
**T162514-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.3	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.3	"	"	"	"	"	"	
Trichloroethene	ND	4.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.3	"	"	"	"	"	"	
Vinyl chloride	ND	4.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.1 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		137 %		95.7-135	"	"	"	"	S-GC

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**C7-3.5**  
**T162514-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.5	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	"
Chlorobenzene	ND	4.5	"	"	"	"	"	"	"
Chloroethane	ND	4.5	"	"	"	"	"	"	"
Chloroform	ND	4.5	"	"	"	"	"	"	"
Chloromethane	ND	4.5	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	9.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	"
Methylene chloride	ND	4.5	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	"

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**C7-3.5**  
**T162514-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.5	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.8 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		136 %		95.7-135	"	"	"	"	S-GC

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**C7-10**  
**T162514-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	5.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"

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**C7-10**  
**T162514-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.4 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		136 %		95.7-135	"	"	"	"	S-GC

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Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 17:27
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**C7-15**  
**T162514-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.3	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.3	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.3	"	"	"	"	"	"	"
Chlorobenzene	ND	4.3	"	"	"	"	"	"	"
Chloroethane	ND	4.3	"	"	"	"	"	"	"
Chloroform	ND	4.3	"	"	"	"	"	"	"
Chloromethane	ND	4.3	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.3	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.5	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.3	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.3	"	"	"	"	"	"	"
Methylene chloride	ND	4.3	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.3	"	"	"	"	"	"	"

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**C7-15**  
**T162514-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.3	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.3	"	"	"	"	"	"	
Trichloroethene	ND	4.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.3	"	"	"	"	"	"	
Vinyl chloride	ND	4.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.4 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		140 %		95.7-135	"	"	"	"	S-GC

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**C7-GW**  
**T162514-11 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>6.4</b>	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**C7-GW**  
**T162514-11 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	

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**C6-5**  
**T162514-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	5.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"

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Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**C6-5**  
**T162514-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	6101138	10/11/16	10/11/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		90.6 %		85.5-116	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.8 %		81.2-123	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		126 %		95.7-135	"	"	"	"	

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**C6-10**  
**T162514-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.3	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.3	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.3	"	"	"	"	"	"	"
Chlorobenzene	ND	4.3	"	"	"	"	"	"	"
Chloroethane	ND	4.3	"	"	"	"	"	"	"
Chloroform	ND	4.3	"	"	"	"	"	"	"
Chloromethane	ND	4.3	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.3	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.3	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.3	"	"	"	"	"	"	"
Methylene chloride	ND	4.3	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.3	"	"	"	"	"	"	"

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**C6-10**  
**T162514-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.3	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.3	"	"	"	"	"	"	
Trichloroethene	ND	4.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.3	"	"	"	"	"	"	
Vinyl chloride	ND	4.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.8 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		136 %	95.7-135		"	"	"	"	S-GC

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**C6-15**  
**T162514-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.1	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.1	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.1	"	"	"	"	"	"	"
Chlorobenzene	ND	4.1	"	"	"	"	"	"	"
Chloroethane	ND	4.1	"	"	"	"	"	"	"
Chloroform	ND	4.1	"	"	"	"	"	"	"
Chloromethane	ND	4.1	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.1	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.1	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.1	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.3	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.1	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.1	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.1	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.1	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.1	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.1	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.1	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.1	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.1	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.1	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.1	"	"	"	"	"	"	"
Methylene chloride	ND	4.1	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.1	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.1	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.1	"	"	"	"	"	"	"

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**C6-15**  
**T162514-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.1	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.1	"	"	"	"	"	"	
Trichloroethene	ND	4.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.1	"	"	"	"	"	"	
Vinyl chloride	ND	4.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.0 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		137 %		95.7-135	"	"	"	"	S-GC

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**C6-GW**  
**T162514-15 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**C6-GW**  
**T162514-15 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"	

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**C1-5.5**  
**T162514-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromochloromethane	ND	4.5	ug/kg	1	6101253	10/12/16	10/12/16	EPA 8260B/5035	AO-1
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	AO-1
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	AO-1
Chlorobenzene	ND	4.5	"	"	"	"	"	"	AO-1
Chloroethane	ND	4.5	"	"	"	"	"	"	AO-1
Chloroform	ND	4.5	"	"	"	"	"	"	AO-1
Chloromethane	ND	4.5	"	"	"	"	"	"	AO-1
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	AO-1
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	AO-1
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	AO-1
1,2-Dibromo-3-chloropropane	ND	9.0	"	"	"	"	"	"	AO-1
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	AO-1
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	AO-1
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	AO-1
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	AO-1
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	AO-1
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	AO-1
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	AO-1
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	AO-1
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	AO-1
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	AO-1
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	AO-1
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	AO-1
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	AO-1
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	AO-1
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	AO-1
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	AO-1
Methylene chloride	ND	4.5	"	"	"	"	"	"	AO-1
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	AO-1
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	AO-1
<b>Tetrachloroethene</b>	<b>5.4</b>	4.5	"	"	"	"	"	"	AO-1

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**C1-5.5**  
**T162514-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.5	ug/kg	1	6101253	10/12/16	10/12/16	EPA 8260B/5035	AO-1
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	AO-1
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	AO-1
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	AO-1
Trichloroethene	ND	4.5	"	"	"	"	"	"	AO-1
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	AO-1
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	AO-1
Vinyl chloride	ND	4.5	"	"	"	"	"	"	AO-1
Surrogate: Toluene-d8		99.0 %		85.5-116	"	"	"	"	AO-1
Surrogate: 4-Bromofluorobenzene		103 %		81.2-123	"	"	"	"	AO-1
Surrogate: Dibromofluoromethane		136 %		95.7-135	"	"	"	"	AO-1, S-GC

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**C1-6.5**  
**T162514-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.0	"	"	"	"	"	"	"
Chlorobenzene	ND	4.0	"	"	"	"	"	"	"
Chloroethane	ND	4.0	"	"	"	"	"	"	"
Chloroform	ND	4.0	"	"	"	"	"	"	"
Chloromethane	ND	4.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	7.9	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>4.7</b>	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.0	"	"	"	"	"	"	"
Methylene chloride	ND	4.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.0	"	"	"	"	"	"	"

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**C1-6.5**  
**T162514-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.0	"	"	"	"	"	"	
Trichloroethene	ND	4.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.0	"	"	"	"	"	"	
Vinyl chloride	ND	4.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		85.1 %		85.5-116	"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		76.5 %		81.2-123	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		130 %		95.7-135	"	"	"	"	

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**C1-13**  
**T162514-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	5.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"

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**C1-13**  
**T162514-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.4 %		85.5-116		"	"	"	"
Surrogate: 4-Bromofluorobenzene		105 %		81.2-123		"	"	"	"
Surrogate: Dibromofluoromethane		135 %		95.7-135		"	"	"	"

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**C4-5**  
**T162514-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.4	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	"
Chlorobenzene	ND	4.4	"	"	"	"	"	"	"
Chloroethane	ND	4.4	"	"	"	"	"	"	"
Chloroform	ND	4.4	"	"	"	"	"	"	"
Chloromethane	ND	4.4	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.9	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.4	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	"
Methylene chloride	ND	4.4	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	"

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**C4-5**  
**T162514-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.4	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.0 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.4 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		134 %		95.7-135	"	"	"	"	

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**C4-10**  
**T162514-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	3.8	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	3.8	"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.8	"	"	"	"	"	"	"
Chlorobenzene	ND	3.8	"	"	"	"	"	"	"
Chloroethane	ND	3.8	"	"	"	"	"	"	"
Chloroform	ND	3.8	"	"	"	"	"	"	"
Chloromethane	ND	3.8	"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.8	"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.8	"	"	"	"	"	"	"
Dibromochloromethane	ND	3.8	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	7.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.8	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.8	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.8	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.8	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.8	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.8	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.8	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.8	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.8	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.8	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.8	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.8	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.8	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	3.8	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.8	"	"	"	"	"	"	"
Methylene chloride	ND	3.8	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.8	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.8	"	"	"	"	"	"	"
Tetrachloroethene	ND	3.8	"	"	"	"	"	"	"

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**C4-10**  
**T162514-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	3.8	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.8	"	"	"	"	"	"	
Trichloroethene	ND	3.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.8	"	"	"	"	"	"	
Vinyl chloride	ND	3.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.8 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		141 %		95.7-135	"	"	"	"	S-GC

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**C4-15**  
**T162514-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	4.2	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	4.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.2	"	"	"	"	"	"	"
Chlorobenzene	ND	4.2	"	"	"	"	"	"	"
Chloroethane	ND	4.2	"	"	"	"	"	"	"
Chloroform	ND	4.2	"	"	"	"	"	"	"
Chloromethane	ND	4.2	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.2	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.2	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.2	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.4	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.2	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.2	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.2	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.2	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.2	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.2	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.2	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.2	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.2	"	"	"	"	"	"	"
Methylene chloride	ND	4.2	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.2	"	"	"	"	"	"	"

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**C4-15**  
**T162514-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	4.2	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	4.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.2	"	"	"	"	"	"	
Trichloroethene	ND	4.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.2	"	"	"	"	"	"	
Vinyl chloride	ND	4.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.9 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.1 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		141 %		95.7-135	"	"	"	"	S-GC

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**C4-GW**  
**T162514-22 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**C4-GW**  
**T162514-22 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	

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**C5-3**  
**T162514-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	5.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

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1038 Redwood Hwy Suite 1  
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Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

**C5-3  
T162514-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		85.6 %		85.5-116	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		74.5 %		81.2-123	"	"	"	"	S-GC
<i>Surrogate: Dibromofluoromethane</i>		126 %		95.7-135	"	"	"	"	

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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 17:27
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**C5-10**  
**T162514-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	3.5	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	3.5	"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.5	"	"	"	"	"	"	"
Chlorobenzene	ND	3.5	"	"	"	"	"	"	"
Chloroethane	ND	3.5	"	"	"	"	"	"	"
Chloroform	ND	3.5	"	"	"	"	"	"	"
Chloromethane	ND	3.5	"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.5	"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.5	"	"	"	"	"	"	"
Dibromochloromethane	ND	3.5	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	6.9	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.5	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.5	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.5	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.5	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.5	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.5	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.5	"	"	"	"	"	"	"
Methylene chloride	ND	3.5	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"	"
Tetrachloroethene	ND	3.5	"	"	"	"	"	"	"

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**C5-10**  
**T162514-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	3.5	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	3.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.5	"	"	"	"	"	"	
Trichloroethene	ND	3.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.5	"	"	"	"	"	"	
Vinyl chloride	ND	3.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		89.4 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		135 %		95.7-135	"	"	"	"	

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**C5-15**  
**T162514-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	5.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"

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**C5-15**  
**T162514-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,3-Trichlorobenzene	ND	5.0	ug/kg	1	6101138	10/11/16	10/12/16	EPA 8260B/5035	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		87.1 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.7 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		145 %		95.7-135	"	"	"	"	S-GC

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**C5-GW**  
**T162514-26 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>26</b>	1.2	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>1.2</b>	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**C5-GW**  
**T162514-26 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	

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**C8-GW**  
**T162514-27 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**C8-GW**  
**T162514-27 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"	

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**C9-GW**  
**T162514-28 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**C9-GW**  
**T162514-28 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	

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**T1-5**  
**T162514-29 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Diesel Range Hydrocarbons	ND	10	mg/kg	1	6101142	10/11/16	10/14/16	EPA 8015C	
<i>Surrogate: p-Terphenyl</i>		95.3 %	65-135		"	"	"	"	

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**T1-10**  
**T162514-30 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Diesel Range Hydrocarbons	ND	10	mg/kg	1	6101142	10/11/16	10/14/16	EPA 8015C	
<i>Surrogate: p-Terphenyl</i>		98.3 %	65-135		"	"	"	"	

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**T1-GW**  
**T162514-31 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Diesel Range Hydrocarbons</b>	<b>320</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>6101144</b>	<b>10/11/16</b>	<b>10/13/16</b>	<b>EPA 8015C</b>
<i>Surrogate: p-Terphenyl</i>		<i>121 %</i>	<i>65-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/13/16	10/13/16	EPA 8260B
Bromodichloromethane	ND	1.2	"	"	"	"	"	"
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"
Chlorobenzene	ND	1.2	"	"	"	"	"	"
Chloroethane	ND	1.2	"	"	"	"	"	"
Chloroform	ND	1.2	"	"	"	"	"	"
Chloromethane	ND	1.2	"	"	"	"	"	"
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"
Dibromochloromethane	ND	1.2	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"
Methylene chloride	ND	1.2	"	"	"	"	"	"

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**T1-GW**  
**T162514-31 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2,2-Tetrachloroethane	ND	1.2	ug/l	1	6101140	10/13/16	10/13/16	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		105 %	88.8-117		"	"	"	"	

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**T1B-5**  
**T162514-32 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Diesel Range Hydrocarbons	ND	10	mg/kg	1	6101142	10/11/16	10/14/16	EPA 8015C	
<i>Surrogate: p-Terphenyl</i>		<i>100 %</i>	<i>65-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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**T1B-10**  
**T162514-33 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Diesel Range Hydrocarbons	ND	10	mg/kg	1	6101142	10/11/16	10/14/16	EPA 8015C	
<i>Surrogate: p-Terphenyl</i>		<i>106 %</i>	<i>65-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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**T2-2.5**  
**T162514-34 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Diesel Range Hydrocarbons	ND	10	mg/kg	1	6101142	10/11/16	10/14/16	EPA 8015C	
<i>Surrogate: p-Terphenyl</i>		<i>101 %</i>	<i>65-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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**T2-5**  
**T162514-35 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Diesel Range Hydrocarbons	ND	10	mg/kg	1	6101142	10/11/16	10/14/16	EPA 8015C	
<i>Surrogate: p-Terphenyl</i>		<i>104 %</i>	<i>65-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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**MW-1**  
**T162514-36 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>68</b>	1.2	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>3.2</b>	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**MW-1**  
**T162514-36 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>2.2</b>	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.1 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		119 %		81-136	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %		88.8-117	"	"	"	"	

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Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 17:27
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**MW-2**  
**T162514-37 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**MW-2**  
**T162514-37 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"	

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**MW-3**  
**T162514-38 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**MW-3**  
**T162514-38 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
Vinyl chloride	ND	1.2	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.8 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"	

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**DUP1**  
**T162514-39 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromochloromethane	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
Bromodichloromethane	ND	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.62	"	"	"	"	"	"	
Chlorobenzene	ND	1.2	"	"	"	"	"	"	
Chloroethane	ND	1.2	"	"	"	"	"	"	
Chloroform	ND	1.2	"	"	"	"	"	"	
Chloromethane	ND	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.62	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.2	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>130</b>	1.2	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>1.8</b>	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.62	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.2	"	"	"	"	"	"	
Methylene chloride	ND	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.2	"	"	"	"	"	"	
Tetrachloroethene	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.2	"	"	"	"	"	"	

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**DUP1**  
**T162514-39 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2,4-Trichlorobenzene	ND	1.2	ug/l	1	6101140	10/11/16	10/13/16	EPA 8260B	
1,1,2-Trichloroethane	ND	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.2	"	"	"	"	"	"	
Trichloroethene	ND	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.2	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>8.9</b>	1.2	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.6 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		109 %		81-136	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %		88.8-117	"	"	"	"	

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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101142 - EPA 3550B GC**

<b>Blank (6101142-BLK1)</b>		Prepared: 10/11/16 Analyzed: 10/14/16								
Diesel Range Hydrocarbons	ND	10	mg/kg							
Surrogate: <i>p</i> -Terphenyl	95.9		"	99.0		96.8	65-135			
<b>LCS (6101142-BS1)</b>		Prepared: 10/11/16 Analyzed: 10/14/16								
Diesel Range Hydrocarbons	620	10	mg/kg	495		124	75-125			
Surrogate: <i>p</i> -Terphenyl	106		"	99.0		107	65-135			
<b>Matrix Spike (6101142-MS1)</b>		<b>Source: T162502-02</b>		Prepared: 10/11/16 Analyzed: 10/14/16						
Diesel Range Hydrocarbons	820	10	mg/kg	505	ND	163	75-125			QM-01
Surrogate: <i>p</i> -Terphenyl	119		"	101		118	65-135			
<b>Matrix Spike Dup (6101142-MSD1)</b>		<b>Source: T162502-02</b>		Prepared: 10/11/16 Analyzed: 10/14/16						
Diesel Range Hydrocarbons	870	10	mg/kg	505	ND	172	75-125	5.51	20	QM-01
Surrogate: <i>p</i> -Terphenyl	102		"	101		101	65-135			

**Batch 6101144 - EPA 3510C GC**

<b>Blank (6101144-BLK1)</b>		Prepared: 10/11/16 Analyzed: 10/13/16								
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: <i>p</i> -Terphenyl	3610		"	4000		90.3	65-135			
<b>LCS (6101144-BS1)</b>		Prepared: 10/11/16 Analyzed: 10/13/16								
Diesel Range Hydrocarbons	21600	50	ug/l	20000		108	75-125			
Surrogate: <i>p</i> -Terphenyl	3650		"	4000		91.1	65-135			
<b>LCS Dup (6101144-BSD1)</b>		Prepared: 10/11/16 Analyzed: 10/13/16								
Diesel Range Hydrocarbons	21500	50	ug/l	20000		108	75-125	0.0668	20	
Surrogate: <i>p</i> -Terphenyl	3600		"	4000		89.9	65-135			

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101138 - EPA 5030 GCMS**

**Blank (6101138-BLK1)**

Prepared & Analyzed: 10/11/16

Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							

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Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 17:27

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101138 - EPA 5030 GCMS**

**Blank (6101138-BLK1)**

Prepared & Analyzed: 10/11/16

Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Surrogate: Toluene-d8	38.4		"	39.6		96.9	85.5-116			
Surrogate: 4-Bromofluorobenzene	40.5		"	39.6		102	81.2-123			
Surrogate: Dibromofluoromethane	42.8		"	39.6		108	95.7-135			

**LCS (6101138-BS1)**

Prepared: 10/11/16 Analyzed: 10/12/16

Chlorobenzene	93.1	5.0	ug/kg	99.0		94.0	75-125			
1,1-Dichloroethene	91.8	5.0	"	99.0		92.8	75-125			
Trichloroethene	96.5	5.0	"	99.0		97.5	75-125			
Surrogate: Toluene-d8	39.9		"	39.6		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	46.6		"	39.6		118	81.2-123			
Surrogate: Dibromofluoromethane	51.3		"	39.6		130	95.7-135			

**LCS Dup (6101138-BS1)**

Prepared: 10/11/16 Analyzed: 10/12/16

Chlorobenzene	102	5.0	ug/kg	99.4		103	75-125	9.14	20	
1,1-Dichloroethene	112	5.0	"	99.4		113	75-125	19.9	20	
Trichloroethene	105	5.0	"	99.4		105	75-125	8.09	20	
Surrogate: Toluene-d8	40.1		"	39.8		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	48.5		"	39.8		122	81.2-123			
Surrogate: Dibromofluoromethane	53.7		"	39.8		135	95.7-135			

**Batch 6101140 - EPA 5030 GCMS**

**Blank (6101140-BLK1)**

Prepared: 10/11/16 Analyzed: 10/13/16

Bromochloromethane	ND	1.2	ug/l							
Bromodichloromethane	ND	1.2	"							
Carbon tetrachloride	ND	0.62	"							
Chlorobenzene	ND	1.2	"							
Chloroethane	ND	1.2	"							
Chloroform	ND	1.2	"							
Chloromethane	ND	1.2	"							
2-Chlorotoluene	ND	1.2	"							
4-Chlorotoluene	ND	1.2	"							
Dibromochloromethane	ND	1.2	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 17:27

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101140 - EPA 5030 GCMS**

**Blank (6101140-BLK1)**

Prepared: 10/11/16 Analyzed: 10/13/16

1,2-Dibromo-3-chloropropane	ND	6.2	ug/l							
1,2-Dichlorobenzene	ND	1.2	"							
1,3-Dichlorobenzene	ND	1.2	"							
1,4-Dichlorobenzene	ND	1.2	"							
Dichlorodifluoromethane	ND	0.62	"							
1,1-Dichloroethane	ND	1.2	"							
1,2-Dichloroethane	ND	0.62	"							
1,1-Dichloroethene	ND	1.2	"							
cis-1,2-Dichloroethene	ND	1.2	"							
trans-1,2-Dichloroethene	ND	1.2	"							
1,2-Dichloropropane	ND	1.2	"							
1,3-Dichloropropane	ND	1.2	"							
2,2-Dichloropropane	ND	1.2	"							
1,1-Dichloropropene	ND	1.2	"							
cis-1,3-Dichloropropene	ND	0.62	"							
trans-1,3-Dichloropropene	ND	0.62	"							
Hexachlorobutadiene	ND	1.2	"							
Methylene chloride	ND	1.2	"							
1,1,2,2-Tetrachloroethane	ND	1.2	"							
1,1,1,2-Tetrachloroethane	ND	1.2	"							
Tetrachloroethene	ND	1.2	"							
1,2,3-Trichlorobenzene	ND	1.2	"							
1,2,4-Trichlorobenzene	ND	1.2	"							
1,1,2-Trichloroethane	ND	1.2	"							
1,1,1-Trichloroethane	ND	1.2	"							
Trichloroethene	ND	1.2	"							
Trichlorofluoromethane	ND	1.2	"							
1,2,3-Trichloropropane	ND	1.2	"							
Vinyl chloride	ND	1.2	"							
Surrogate: 4-Bromofluorobenzene	9.58		"	10.0		95.8	83.5-119			
Surrogate: Dibromofluoromethane	10.0		"	10.0		100	81-136			
Surrogate: Toluene-d8	9.96		"	10.0		99.6	88.8-117			

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 17:27

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101140 - EPA 5030 GCMS**

**LCS (6101140-BS1)**

Prepared: 10/11/16 Analyzed: 10/13/16

Chlorobenzene	23.0	1.2	ug/l	25.0		92.0	75-125			
1,1-Dichloroethene	23.4	1.2	"	25.0		93.6	75-125			
Trichloroethene	21.7	1.2	"	25.0		86.9	75-125			
Surrogate: 4-Bromofluorobenzene	9.84		"	10.0		98.4	83.5-119			
Surrogate: Dibromofluoromethane	10.6		"	10.0		106	81-136			
Surrogate: Toluene-d8	10.2		"	10.0		102	88.8-117			

**LCS Dup (6101140-BSD1)**

Prepared: 10/11/16 Analyzed: 10/14/16

Chlorobenzene	23.5	1.2	ug/l	25.0		94.0	75-125	2.15	20	
1,1-Dichloroethene	24.7	1.2	"	25.0		98.8	75-125	5.46	20	
Trichloroethene	22.3	1.2	"	25.0		89.2	75-125	2.61	20	
Surrogate: 4-Bromofluorobenzene	9.65		"	10.0		96.5	83.5-119			
Surrogate: Dibromofluoromethane	10.4		"	10.0		104	81-136			
Surrogate: Toluene-d8	10.2		"	10.0		102	88.8-117			

**Batch 6101253 - EPA 5030 GCMS**

**Blank (6101253-BLK1)**

Prepared & Analyzed: 10/12/16

Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 17:27
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101253 - EPA 5030 GCMS**

**Blank (6101253-BLK1)**

Prepared & Analyzed: 10/12/16

cis-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
Vinyl chloride	ND	5.0	"							

Surrogate: Toluene-d8	39.6		"	39.7		99.9	85.5-116			
Surrogate: 4-Bromofluorobenzene	40.9		"	39.7		103	81.2-123			
Surrogate: Dibromofluoromethane	36.5		"	39.7		91.9	95.7-135			S-GC

**LCS (6101253-BS1)**

Prepared & Analyzed: 10/12/16

Chlorobenzene	89.4	5.0	ug/kg	99.6		89.8	75-125			
1,1-Dichloroethene	89.4	5.0	"	99.6		89.8	75-125			
Trichloroethene	92.2	5.0	"	99.6		92.6	75-125			
Surrogate: Toluene-d8	40.7		"	39.8		102	85.5-116			
Surrogate: 4-Bromofluorobenzene	47.9		"	39.8		120	81.2-123			
Surrogate: Dibromofluoromethane	45.4		"	39.8		114	95.7-135			

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 17:27
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101253 - EPA 5030 GCMS**

**LCS Dup (6101253-BSD1)**

Prepared & Analyzed: 10/12/16

Chlorobenzene	100	5.0	ug/kg	100	100	100	75-125	11.2	20	
1,1-Dichloroethene	98.6	5.0	"	100	98.6	98.6	75-125	9.69	20	
Trichloroethene	104	5.0	"	100	104	104	75-125	11.9	20	
Surrogate: Toluene-d8	40.9		"	40.0		102	85.5-116			
Surrogate: 4-Bromofluorobenzene	47.1		"	40.0		118	81.2-123			
Surrogate: Dibromofluoromethane	45.0		"	40.0		112	95.7-135			

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager





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Lake Forest, California 92630  
949.297.5020 Phone  
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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 17:27

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QM-01 The % recovery is outside of established control limits due to matrix interference and/or sample dilution due to matrix effect. The batch was accepted based on acceptable LCS recovery.
- AO-1 5035 VOA opened prior to analysis to place appropriate cap on container (incorrect solid cap was present on VOA upon receipt)
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

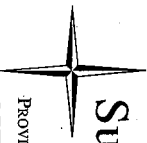
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SunStar Laboratories, Inc.

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---

Katherine RunningCrane, Project Manager



**SunStar Laboratories, Inc.**  
 PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE  
 25712 Commerce Centre Drive, Lake Forest, CA 92630  
 949-297-5020

**Chain of Custody Record**

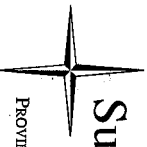
Client: ERG  
 Address: 10388 Redwood Hwy Ste 1  
 Phone: 415 381 6574 Fax: \_\_\_\_\_  
 Project Manager: Ben Wells

Date: 10-7-16 Page: 1 of 3  
 Project Name: Nugget Mail  
 Collector: Y Baylton Client Project #: \_\_\_\_\_  
 Batch #: 71624 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	CuOCs (8260)	Laboratory ID #	Comments/Preservative	Total # of containers		
C3-4.5	10-6-16	1130	Soil	TERRACON											X	01				
C3-10		1145	Soil	↓											X	02				
C3-15		1200	Soil	↓											X	03				
C3-GW		1230	GW	VOAS											X	04				
C2-4.5		1640	Soil	TERRACON											X	05				
C2-10.5		1650	Soil	↓											X	06				
C2-15		1700	Soil	↓											X	07				
C2-35		1415	Soil	TERRACON											X	08				
C7-10		1430	Soil	↓											X	09				
C7-15		1500	Soil	↓											X	10				
C7-GW		1515	GW	VOAS											X	11				
C6-5	10-5-16	1130	Soil	TERRACON											X	12				
C6-10		1145	Soil	↓											X	13				
C6-15		1200	Soil	↓											X	14				
C6-GW		1230	GW	VOAS											X	15				
Relinquished by: (signature) <u>[Signature]</u>			Received by: (signature) <u>[Signature]</u>			Date / Time			Date / Time			Chain of Custody seals Y/N/NA			Seals intact? Y/N/NA			Received good condition/cold		
Relinquished by: (signature) <u>[Signature]</u>			Received by: (signature) <u>[Signature]</u>			Date / Time			Date / Time			Turn around time: <u>STD</u>			Notes					
Relinquished by: (signature) <u>[Signature]</u>			Received by: (signature) <u>[Signature]</u>			Date / Time			Date / Time			Total # of containers			Total # of containers					

Sample disposal Instructions: Disposal @ \$2.00 each  Return to client \_\_\_\_\_ Pickup \_\_\_\_\_

**COC 151964**



**SunStar  
Laboratories, Inc.**

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

**Chain of Custody Record**

Client: ERG  
Address: \_\_\_\_\_  
Phone: 415 816 574 Fax: \_\_\_\_\_  
Project Manager: Ben Wells

Date: 10-7-16 Page: 2 of 3  
Project Name: Nugget Mall Client Project #: \_\_\_\_\_  
Collector: \_\_\_\_\_ EDF #: \_\_\_\_\_  
Batch #: 714514

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	CVOCS (8260)	Laboratory ID #	Comments/Preservative	Total # of containers
CI-5.5	10-4-16	1215	Soil	Terracots											X	16		3
CI-6.5		1230														17		
CI-13		1300														18		
CI-15	10-6-16	800	Soil													19		
CI-10		820														20		
CI-15		840														21		
CI-GW		900	GW	VOPS												22		
CS-3	10-5-16	1720	Soil	Terracots												23		
CS-10		1735	Soil													24		
CS-15		1750	Soil													25		
CS-GW		1800	GW	VOPS												26		
CS-GW	10-5-16	1400	GW													27		
CS-GW	10-5-16	1615	GW													28		
Relinquished by: (signature) _____				Date / Time	Received by: (signature) _____	Date / Time	Total # of containers										Notes	
Relinquished by: (signature) _____				10-7-16 12:00	Received by: (signature) _____		Chain of Custody seals Y/N/NA											
Relinquished by: (signature) _____					Received by: (signature) _____		Seals intact? Y/N/NA											
Relinquished by: (signature) _____					Received by: (signature) _____		Received good condition/cold											
Relinquished by: (signature) _____					Received by: (signature) _____		Turn around time: <u>5:00</u>											

Sample disposal instructions: Disposal @ \$2.00 each  Return to client \_\_\_\_\_ Pickup \_\_\_\_\_

COC 151965



## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7162514

Client Name: ERG Project: NUGGET MAIL

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: SUNNY Date/Time Lab Received: 10-11-16 / 11:40

Total number of coolers received: 1

Temperature: Cooler #1 <u>1.9</u>	°C +/- the CF (- 0.2°C) = <u>4.7</u>	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample  Yes  No\*  N/A

Sample containers intact  Yes  No\*

Sample labels match Chain of Custody IDs  Yes  No\*

Total number of containers received match COC  Yes  No\*

Proper containers received for analyses requested on COC  Yes  No\*

Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 10-11-16

Comments: \_\_\_\_\_



## Katherine RunningCrane

---

**From:** Yola Bayram [ybayram@environmentalrg.com]  
**Sent:** Tuesday, October 11, 2016 6:02 PM  
**To:** 'Katherine RunningCrane'  
**Cc:** bwells@environmentalrg.com  
**Subject:** RE: Samples received today

Yes..I forgot about the monitoring well samples. Please analyze all 4 for CVOCs.

We didn't have enough jars so we used bags for those 4 samples listed as improper. They can still be analyzed, correct? Also yes that was a misspelling and the container with a label that says T2-5 collected at 1015am is correct.

Please check again because I definitely collected 3 terracores for every sample and C1-5.5' was the first sample I collected and I distinctly remember collecting soil for the methanol VOA and the two sodium bisulfate VOAs for that one.

Thanks

Yola Bayram  
Geologist  
510-671-2088 - Direct  
313-204-8477 - cell

---

**From:** Katherine RunningCrane [<mailto:kshields@sunstarlabs.com>]  
**Sent:** Tuesday, October 11, 2016 5:19 PM  
**To:** 'Yola Bayram' <[ybayram@environmentalrg.com](mailto:ybayram@environmentalrg.com)>  
**Subject:** RE: Samples received today

Actually, it looks like we received 4 samples that were not on the COC: MW-1, MW-2, MW-3 & DUP1). Do you want Chlorinated VOCs for all 4 samples? On page 5 of the attached COC, please see the non-conformance sheet. There is also a mention of improper containers. For sample C1-5.5, we only received one methanol VOA. The methanol VOA contained too much soil (about 23g and the method required about 6g) and we will not be able to analyze that sample since we did not receive Sodium Bisulfate VOAs for that sample. Please let me know how you want me to proceed. Thanks!

Sincerely,

*Katherine Running Crane*

Project Manager  
SunStar Laboratories, Inc.  
phone: (949) 297-5020

---

**From:** Yola Bayram [<mailto:ybayram@environmentalrg.com>]  
**Sent:** Tuesday, October 11, 2016 5:02 PM  
**To:** 'Katherine RunningCrane'  
**Cc:** [bwells@environmentalrg.com](mailto:bwells@environmentalrg.com)  
**Subject:** RE: Samples received today

This is for the samples you received today. The soil and groundwater samples that came in a white cooler.

---

**From:** Katherine RunningCrane [<mailto:kshields@sunstarlabs.com>]  
**Sent:** Tuesday, October 11, 2016 4:58 PM  
**To:** 'Yola Bayram' <[ybayram@environmentalrg.com](mailto:ybayram@environmentalrg.com)>  
**Cc:** [bwells@environmentalrg.com](mailto:bwells@environmentalrg.com)  
**Subject:** RE: Samples received today

Is this for the samples we will receive tomorrow?

Sincerely,

*Katherine Running Crane*

Project Manager  
SunStar Laboratories, Inc.  
phone: (949) 297-5020

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**From:** Yola Bayram [<mailto:ybayram@environmentalrg.com>]  
**Sent:** Tuesday, October 11, 2016 4:16 PM  
**To:** 'Katherine Shields'  
**Cc:** [bwells@environmentalrg.com](mailto:bwells@environmentalrg.com)  
**Subject:** Samples received today  
**Importance:** High

Hi Katherine

I'm going through my notes and I realized that I forgot to put a sample on the COC but it is in the cooler. The sample ID is Dup-1. It was sampled 10-5-16 at 1255. It's a groundwater sample with 3 voas that needs to be analyzed for CVOCs.

Thanks!

Yola Bayram  
Geologist  
510-671-2088 - Direct  
313-204-8477 - cell

No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4656/13191 - Release Date: 10/11/16

No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4656/13191 - Release Date: 10/11/16

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No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4656/13090 - Release Date: 09/26/16  
Internal Virus Database is out of date.



No virus found in this message.

Checked by AVG - [www.avg.com](http://www.avg.com)

Version: 2016.0.7294 / Virus Database: 4656/13191 - Release Date: 10/11/16



**SunStar  
Laboratories, Inc.**

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE  
25712 Commercentre Drive, Lake Forest, CA 92630  
949-297-5020

**Chain of Custody Record**

Client: ERG  
Address: \_\_\_\_\_  
Phone: 415-381-6574 Fax: \_\_\_\_\_  
Project Manager: Ben Weils

Date: 10-7-16 Page: 3 of 3  
Project Name: Nugget Mail  
Collector: \_\_\_\_\_  
Batch #: 71654 Client Project #: \_\_\_\_\_  
EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
T1-5	10-7-16	8:30	Soil	Soil Bag							X	X			24		1
T1-10		8:45	Soil	Soil Bag							X	X			25	added for COCs	1
T1B-5		9:00	GW	Amber Bag							X	X			26		1
T1B-10		9:30	Soil	Soil Bag							X	X			27		1
T2-2.5		9:45	Soil	Soil Bag							X	X			28		1
T2-2.5		10:00	Soil	Soil Bag							X	X			29		1
T2-2.5		10:15	Soil	Soil Bag							X	X			30		1
															31		1
															32		1
															33		1
															34		1
															35		1
Relinquished by: (signature) _____			Date / Time	Received by: (signature) _____	Date / Time	Total # of containers									Notes		
Relinquished by: (signature) _____			10-7-16 12:00	Received by: (signature) _____	10-7-16 11:40	Chain of Custody seals Y/N/NA Seals intact? Y/N/NA											
Relinquished by: (signature) _____			Date / Time	Received by: (signature) _____	Date / Time	Received good condition/cold									Turn around time: <u>STD</u>		
Relinquished by: (signature) _____			10-11-16 11:30	Received by: (signature) _____	10-11-16 11:40	4-7											

COC 151966

**WORK ORDER**

**T162514**

**Client:** ERG-Environmental Resource Group  
**Project:** Nugget Mall

**Project Manager:** Katherine RunningCrane  
**Project Number:** [none]

**Report To:**

ERG-Environmental Resource Group  
 Ben Wells  
 1038 Redwood Hwy Suite 1  
 Mill Valley, CA 94941

Date Due: 10/14/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 10/11/16 11:40

Logged In By: Sunny Lounethone

Date Logged In: 10/11/16 12:03

Samples Received at: 4.7°C  
 Custody Seals No Received On Ice Yes  
 Containers Intact Yes  
 COC/Labels Agree Yes  
 Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
<b>T162514-01 C3-4.5 [Soil] Sampled 10/06/16 11:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 11:30	Chlorinated VOCs only
<b>T162514-02 C3-10 [Soil] Sampled 10/06/16 11:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 11:45	Chlorinated VOCs only
<b>T162514-03 C3-15 [Soil] Sampled 10/06/16 12:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 12:00	Chlorinated VOCs only
<b>T162514-04 C3-GW [Water] Sampled 10/06/16 12:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/20/16 12:30	Chlorinated VOCs only
<b>T162514-05 C2-4.5 [Soil] Sampled 10/06/16 16:40 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 16:40	Chlorinated VOCs only
<b>T162514-06 C2-10.5 [Soil] Sampled 10/06/16 16:50 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 16:50	Chlorinated VOCs only
<b>T162514-07 C2-15 [Soil] Sampled 10/06/16 17:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 17:00	Chlorinated VOCs only

**WORK ORDER**

**T162514**

<b>Client:</b> ERG-Environmental Resource Group	<b>Project Manager:</b> Katherine RunningCrane
<b>Project:</b> Nugget Mall	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
<b>T162514-08 C7-3.5 [Soil] Sampled 10/06/16 14:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 14:15	Chlorinated VOCs only
<b>T162514-09 C7-10 [Soil] Sampled 10/06/16 14:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 14:30	Chlorinated VOCs only
<b>T162514-10 C7-15 [Soil] Sampled 10/06/16 15:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 15:00	Chlorinated VOCs only
<b>T162514-11 C7-GW [Water] Sampled 10/06/16 15:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/20/16 15:15	Chlorinated VOCs only
<b>T162514-12 C6-5 [Soil] Sampled 10/05/16 11:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 11:30	Chlorinated VOCs only
<b>T162514-13 C6-10 [Soil] Sampled 10/05/16 11:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 11:45	Chlorinated VOCs only
<b>T162514-14 C6-15 [Soil] Sampled 10/05/16 12:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 12:00	Chlorinated VOCs only
<b>T162514-15 C6-GW [Water] Sampled 10/05/16 12:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 12:30	Chlorinated VOCs only
<b>T162514-16 C1-5.5 [Soil] Sampled 10/04/16 12:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/18/16 12:15	Chlorinated VOCs only
<b>T162514-17 C1-6.5 [Soil] Sampled 10/04/16 12:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/18/16 12:30	Chlorinated VOCs only
<b>T162514-18 C1-13 [Soil] Sampled 10/04/16 13:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/18/16 13:00	Chlorinated VOCs only

**WORK ORDER**

**T162514**

<b>Client:</b> ERG-Environmental Resource Group	<b>Project Manager:</b> Katherine RunningCrane
<b>Project:</b> Nugget Mall	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
<b>T162514-19 C4-5 [Soil] Sampled 10/06/16 08:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 08:00	Chlorinated VOCs only
<b>T162514-20 C4-10 [Soil] Sampled 10/06/16 08:20 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 08:20	Chlorinated VOCs only
<b>T162514-21 C4-15 [Soil] Sampled 10/06/16 08:40 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 08:40	Chlorinated VOCs only
<b>T162514-22 C4-GW [Water] Sampled 10/06/16 09:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/20/16 09:00	Chlorinated VOCs only
<b>T162514-23 C5-3 [Soil] Sampled 10/05/16 17:20 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 17:20	Chlorinated VOCs only
<b>T162514-24 C5-10 [Soil] Sampled 10/05/16 17:35 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 17:35	Chlorinated VOCs only
<b>T162514-25 C5-15 [Soil] Sampled 10/05/16 17:50 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 17:50	Chlorinated VOCs only
<b>T162514-26 C5-GW [Water] Sampled 10/05/16 18:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 18:00	Chlorinated VOCs only
<b>T162514-27 C8-GW [Water] Sampled 10/05/16 14:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 14:00	Chlorinated VOCs only
<b>T162514-28 C9-GW [Water] Sampled 10/05/16 16:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 16:15	Chlorinated VOCs only
<b>T162514-29 T1-5 [Soil] Sampled 10/07/16 08:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 08:30	

**WORK ORDER**

**T162514**

<b>Client:</b> ERG-Environmental Resource Group	<b>Project Manager:</b> Katherine RunningCrane
<b>Project:</b> Nugget Mall	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
<b>T162514-30 T1-10 [Soil] Sampled 10/07/16 08:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 08:45	
<b>T162514-31 T1-GW [Water] Sampled 10/07/16 09:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 DRO water 50ppb	10/14/16 15:00	3	10/14/16 09:00	
<b>T162514-32 T1B-5 [Soil] Sampled 10/07/16 09:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 09:30	
<b>T162514-33 T1B-10 [Soil] Sampled 10/07/16 09:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 09:45	
<b>T162514-34 T2-2.5 [Soil] Sampled 10/07/16 10:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 10:00	
<b>T162514-35 T2-5 [Soil] Sampled 10/07/16 10:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 10:15	
<b>T162514-36 MW-1 [Water] Sampled 10/02/16 17:56 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/16/16 17:56	NOT ON COC. Chlorinated VOCs only
<b>T162514-37 MW-2 [Water] Sampled 10/02/16 17:13 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/16/16 17:13	NOT ON COC. Chlorinated VOCs only
<b>T162514-38 MW-3 [Water] Sampled 10/02/16 16:44 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/16/16 16:44	NOT ON COC. Chlorinated VOCs only
<b>T162514-39 DUP1 [Water] Sampled 10/05/16 12:55 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 12:55	NOT ON COC. Chlorinated VOCs only

**WORK ORDER**

**T162514**

**Client:** ERG-Environmental Resource Group  
**Project:** Nugget Mall

**Project Manager:** Katherine RunningCrane  
**Project Number:** [none]

**Report To:**

ERG-Environmental Resource Group  
 Ben Wells  
 1038 Redwood Hwy Suite 1  
 Mill Valley, CA 94941

Date Due: 10/14/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 10/11/16 11:40

Logged In By: Sunny Lounethone

Date Logged In: 10/11/16 12:03

Samples Received at: 4.7°C  
 Custody Seals No Received On Ice Yes  
 Containers Intact Yes  
 COC/Labels Agree Yes  
 Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
<b>T162514-01 C3-4.5 [Soil] Sampled 10/06/16 11:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 11:30	Chlorinated VOCs only
<b>T162514-02 C3-10 [Soil] Sampled 10/06/16 11:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 11:45	Chlorinated VOCs only
<b>T162514-03 C3-15 [Soil] Sampled 10/06/16 12:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 12:00	Chlorinated VOCs only
<b>T162514-04 C3-GW [Water] Sampled 10/06/16 12:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/20/16 12:30	Chlorinated VOCs only
<b>T162514-05 C2-4.5 [Soil] Sampled 10/06/16 16:40 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 16:40	Chlorinated VOCs only
<b>T162514-06 C2-10.5 [Soil] Sampled 10/06/16 16:50 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 16:50	Chlorinated VOCs only
<b>T162514-07 C2-15 [Soil] Sampled 10/06/16 17:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 17:00	Chlorinated VOCs only

**WORK ORDER**

**T162514**

<b>Client:</b> ERG-Environmental Resource Group	<b>Project Manager:</b> Katherine RunningCrane
<b>Project:</b> Nugget Mall	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
<b>T162514-08 C7-3.5 [Soil] Sampled 10/06/16 14:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 14:15	Chlorinated VOCs only
<b>T162514-09 C7-10 [Soil] Sampled 10/06/16 14:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 14:30	Chlorinated VOCs only
<b>T162514-10 C7-15 [Soil] Sampled 10/06/16 15:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 15:00	Chlorinated VOCs only
<b>T162514-11 C7-GW [Water] Sampled 10/06/16 15:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/20/16 15:15	Chlorinated VOCs only
<b>T162514-12 C6-5 [Soil] Sampled 10/05/16 11:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 11:30	Chlorinated VOCs only
<b>T162514-13 C6-10 [Soil] Sampled 10/05/16 11:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 11:45	Chlorinated VOCs only
<b>T162514-14 C6-15 [Soil] Sampled 10/05/16 12:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 12:00	Chlorinated VOCs only
<b>T162514-15 C6-GW [Water] Sampled 10/05/16 12:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 12:30	Chlorinated VOCs only
<b>T162514-16 C1-5.5 [Soil] Sampled 10/04/16 12:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/18/16 12:15	Chlorinated VOCs only
<b>T162514-17 C1-6.5 [Soil] Sampled 10/04/16 12:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/18/16 12:30	Chlorinated VOCs only
<b>T162514-18 C1-13 [Soil] Sampled 10/04/16 13:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/18/16 13:00	Chlorinated VOCs only



**WORK ORDER**

**T162514**

<b>Client:</b> ERG-Environmental Resource Group	<b>Project Manager:</b> Katherine RunningCrane
<b>Project:</b> Nugget Mall	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
<b>T162514-19 C4-5 [Soil] Sampled 10/06/16 08:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 08:00	Chlorinated VOCs only
<b>T162514-20 C4-10 [Soil] Sampled 10/06/16 08:20 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 08:20	Chlorinated VOCs only
<b>T162514-21 C4-15 [Soil] Sampled 10/06/16 08:40 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/20/16 08:40	Chlorinated VOCs only
<b>T162514-22 C4-GW [Water] Sampled 10/06/16 09:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/20/16 09:00	Chlorinated VOCs only
<b>T162514-23 C5-3 [Soil] Sampled 10/05/16 17:20 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 17:20	Chlorinated VOCs only
<b>T162514-24 C5-10 [Soil] Sampled 10/05/16 17:35 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 17:35	Chlorinated VOCs only
<b>T162514-25 C5-15 [Soil] Sampled 10/05/16 17:50 (GMT-08:00) Pacific Time (US &amp;</b>				
8260 5035	10/14/16 15:00	3	10/19/16 17:50	Chlorinated VOCs only
<b>T162514-26 C5-GW [Water] Sampled 10/05/16 18:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 18:00	Chlorinated VOCs only
<b>T162514-27 C8-GW [Water] Sampled 10/05/16 14:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 14:00	Chlorinated VOCs only
<b>T162514-28 C9-GW [Water] Sampled 10/05/16 16:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 16:15	Chlorinated VOCs only
<b>T162514-29 T1-5 [Soil] Sampled 10/07/16 08:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 08:30	

**WORK ORDER**

**T162514**

<b>Client:</b> ERG-Environmental Resource Group	<b>Project Manager:</b> Katherine RunningCrane
<b>Project:</b> Nugget Mall	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
<b>T162514-30 T1-10 [Soil] Sampled 10/07/16 08:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 08:45	
<b>T162514-31 T1-GW [Water] Sampled 10/07/16 09:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 DRO water 50ppb	10/14/16 15:00	3	10/14/16 09:00	
8260	10/18/16 15:00	3	10/21/16 09:00	Chlorinated VOCs only
<b>T162514-32 T1B-5 [Soil] Sampled 10/07/16 09:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 09:30	
<b>T162514-33 T1B-10 [Soil] Sampled 10/07/16 09:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 09:45	
<b>T162514-34 T2-2.5 [Soil] Sampled 10/07/16 10:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 10:00	
<b>T162514-35 T2-5 [Soil] Sampled 10/07/16 10:15 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Diesel	10/14/16 15:00	3	10/21/16 10:15	
<b>T162514-36 MW-1 [Water] Sampled 10/02/16 17:56 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/16/16 17:56	NOT ON COC. Chlorinated VOCs only
<b>T162514-37 MW-2 [Water] Sampled 10/02/16 17:13 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/16/16 17:13	NOT ON COC. Chlorinated VOCs only
<b>T162514-38 MW-3 [Water] Sampled 10/02/16 16:44 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/16/16 16:44	NOT ON COC. Chlorinated VOCs only
<b>T162514-39 DUP1 [Water] Sampled 10/05/16 12:55 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	10/14/16 15:00	3	10/19/16 12:55	NOT ON COC. Chlorinated VOCs only



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

18 October 2016

Ben Wells  
ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley, CA 94941  
RE: Nugget Mall

Enclosed are the results of analyses for samples received by the laboratory on 10/12/16 09:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane  
Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

**Reported:**  
 10/18/16 16:34

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV3	T162527-01	Air	10/06/16 18:27	10/12/16 09:45
SV5	T162527-02	Air	10/06/16 19:05	10/12/16 09:45
SV11	T162527-03	Air	10/07/16 15:32	10/12/16 09:45
SV8	T162527-04	Air	10/07/16 12:18	10/12/16 09:45
SV1	T162527-05	Air	10/07/16 12:46	10/12/16 09:45
SV6	T162527-06	Air	10/07/16 13:50	10/12/16 09:45
SV9	T162527-07	Air	10/07/16 14:25	10/12/16 09:45
SS2	T162527-08	Air	10/07/16 14:29	10/12/16 09:45
SV10	T162527-09	Air	10/07/16 14:55	10/12/16 09:45
DUP1	T162527-10	Air	10/07/16 11:40	10/12/16 09:45
DUP2	T162527-11	Air	10/07/16 10:30	10/12/16 09:45
SV4	T162527-12	Air	10/07/16 16:11	10/12/16 09:45

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

### DETECTIONS SUMMARY

**Sample ID:** SV3 **Laboratory ID:** T162527-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
1,4-Dichlorobenzene	2.9	6.1	ug/m <sup>3</sup> Air	TO-15	J

**Sample ID:** SV5 **Laboratory ID:** T162527-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	41	6.9	ug/m <sup>3</sup> Air	TO-15	
Trichloroethene	13	5.5	ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** SV11 **Laboratory ID:** T162527-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	34	6.9	ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** SV8 **Laboratory ID:** T162527-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	5000	350	ug/m <sup>3</sup> Air	TO-15	TO-14
Trichloroethene	58	270	ug/m <sup>3</sup> Air	TO-15	TO-14, J

**Sample ID:** SV1 **Laboratory ID:** T162527-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	1100	350	ug/m <sup>3</sup> Air	TO-15	TO-14
Trichloroethene	77	270	ug/m <sup>3</sup> Air	TO-15	TO-14, J

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**Sample ID:** SV6 **Laboratory ID:** T162527-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	160	6.9	ug/m <sup>3</sup> Air	TO-15	
Trichloroethene	5.9	5.5	ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** SV9 **Laboratory ID:** T162527-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	2900	350	ug/m <sup>3</sup> Air	TO-15	TO-14

**Sample ID:** SS2 **Laboratory ID:** T162527-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	320	350	ug/m <sup>3</sup> Air	TO-15	TO-14, J

**Sample ID:** SV10 **Laboratory ID:** T162527-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	160	6.9	ug/m <sup>3</sup> Air	TO-15	
Trichloroethene	56	5.5	ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** DUP1 **Laboratory ID:** T162527-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	2600	350	ug/m <sup>3</sup> Air	TO-15	TO-14

**Sample ID:** DUP2 **Laboratory ID:** T162527-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	590	6.9	ug/m <sup>3</sup> Air	TO-15	
Trichloroethene	25	5.5	ug/m <sup>3</sup> Air	TO-15	

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1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**Sample ID:** SV4

**Laboratory ID:** T162527-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Tetrachloroethene	16	6.9		ug/m <sup>3</sup> Air	TO-15	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV3**

**T162527-01(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.53	6101238	10/12/16	10/13/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
<b>1,4-Dichlorobenzene</b>	<b>2.9</b>	0.44	6.1	"	"	"	"	"	"	J
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

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*Katherine RunningCrane*



ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Nugget Mall Project Number: [none] Project Manager: Ben Wells	Reported: 10/18/16 16:34
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**SV3**  
**T162527-01(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.53	6101238	10/12/16	10/13/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			88.5 %	40-160		"	"	"	"	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV5**

**T162527-02(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.39	6101238	10/12/16	10/13/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	"
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"	"
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	"
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	"
Chloromethane	ND	0.47	11	"	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"	"
Hexane	ND	0.44	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**SV5**

**T162527-02(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.39	6101238	10/12/16	10/13/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>41</b>	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>13</b>	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			77.1 %		40-160		"	"	"	"

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV11**  
**T162527-03(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.41	6101238	10/12/16	10/13/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**SV11**  
**T162527-03(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.41	6101238	10/12/16	10/13/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>34</b>	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			75.2 %		40-160		"	"	"	"

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV8**

**T162527-04(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	17	120	ug/m <sup>3</sup> Air	1.38	6101238	10/12/16	10/12/16	TO-15	TO-14
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	26	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	15	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	11	130	"	"	"	"	"	"	TO-14
Chloroform	ND	9.4	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	7.4	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	12	170	"	"	"	"	"	"	TO-14
Heptane	ND	21	210	"	"	"	"	"	"	TO-14
Hexane	ND	10	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	15	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	17	180	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**SV8**

**T162527-04(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	13	220	ug/m <sup>3</sup> Air	1.38	6101238	10/12/16	10/12/16	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>5000</b>	19	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	TO-14
<b>Trichloroethene</b>	<b>58</b>	8.7	270	"	"	"	"	"	"	TO-14, J
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	TO-14
Benzene	ND	4.9	160	"	"	"	"	"	"	TO-14
Toluene	ND	11	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	10	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	15	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	9.3	220	"	"	"	"	"	"	TO-14

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

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**SV1**

**T162527-05(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	17	120	ug/m <sup>3</sup> Air	1.37	6101238	10/12/16	10/12/16	TO-15	TO-14
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	26	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	15	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	11	130	"	"	"	"	"	"	TO-14
Chloroform	ND	9.4	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	7.4	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	12	170	"	"	"	"	"	"	TO-14
Heptane	ND	21	210	"	"	"	"	"	"	TO-14
Hexane	ND	10	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	15	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	17	180	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

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*Katherine RunningCrane*





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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:34

**SV1**  
**T162527-05(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	13	220	ug/m <sup>3</sup> Air	1.37	6101238	10/12/16	10/12/16	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>1100</b>	19	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	TO-14
<b>Trichloroethene</b>	<b>77</b>	8.7	270	"	"	"	"	"	"	TO-14, J
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	TO-14
Benzene	ND	4.9	160	"	"	"	"	"	"	TO-14
Toluene	ND	11	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	10	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	15	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	9.3	220	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV6**

**T162527-06(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.44	6101238	10/12/16	10/13/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	"
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"	"
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	"
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	"
Chloromethane	ND	0.47	11	"	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"	"
Hexane	ND	0.44	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	"

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*Katherine RunningCrane*



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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:34

**SV6**  
**T162527-06(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.44	6101238	10/12/16	10/13/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>160</b>	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>5.9</b>	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			80.3 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV9**

**T162527-07(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	17	120	ug/m <sup>3</sup> Air	1.39	6101238	10/12/16	10/12/16	TO-15	TO-14
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	26	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	15	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	11	130	"	"	"	"	"	"	TO-14
Chloroform	ND	9.4	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	7.4	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	12	170	"	"	"	"	"	"	TO-14
Heptane	ND	21	210	"	"	"	"	"	"	TO-14
Hexane	ND	10	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	15	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	17	180	"	"	"	"	"	"	TO-14

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**SV9**

**T162527-07(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	13	220	ug/m <sup>3</sup> Air	1.39	6101238	10/12/16	10/12/16	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>2900</b>	19	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	8.7	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	TO-14
Benzene	ND	4.9	160	"	"	"	"	"	"	TO-14
Toluene	ND	11	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	10	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	15	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	9.3	220	"	"	"	"	"	"	TO-14

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SS2**  
**T162527-08(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	17	120	ug/m <sup>3</sup> Air	1.4	6101238	10/12/16	10/12/16	TO-15	TO-14
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	26	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	15	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	11	130	"	"	"	"	"	"	TO-14
Chloroform	ND	9.4	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	7.4	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	12	170	"	"	"	"	"	"	TO-14
Heptane	ND	21	210	"	"	"	"	"	"	TO-14
Hexane	ND	10	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	15	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	17	180	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**SS2**

**T162527-08(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	13	220	ug/m <sup>3</sup> Air	1.4	6101238	10/12/16	10/12/16	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>320</b>	19	350	"	"	"	"	"	"	TO-14, J
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	8.7	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	TO-14
Benzene	ND	4.9	160	"	"	"	"	"	"	TO-14
Toluene	ND	11	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	10	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	15	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	9.3	220	"	"	"	"	"	"	TO-14

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV10**  
**T162527-09(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.38	6101238	10/12/16	10/13/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

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*Katherine RunningCrane*



ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**SV10**  
**T162527-09(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.38	6101238	10/12/16	10/13/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>160</b>	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>56</b>	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			75.7 %		40-160	"	"	"	"	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
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**DUP1**  
**T162527-10(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	17	120	ug/m <sup>3</sup> Air	1.42	6101238	10/12/16	10/12/16	TO-15	TO-14
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	26	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	15	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	11	130	"	"	"	"	"	"	TO-14
Chloroform	ND	9.4	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	7.4	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	12	170	"	"	"	"	"	"	TO-14
Heptane	ND	21	210	"	"	"	"	"	"	TO-14
Hexane	ND	10	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	15	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	17	180	"	"	"	"	"	"	TO-14

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
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**DUP1**  
**T162527-10(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	13	220	ug/m <sup>3</sup> Air	1.42	6101238	10/12/16	10/12/16	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>2600</b>	19	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	8.7	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	TO-14
Benzene	ND	4.9	160	"	"	"	"	"	"	TO-14
Toluene	ND	11	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	10	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	15	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	9.3	220	"	"	"	"	"	"	TO-14

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
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**DUP2**  
**T162527-11(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.48	6101238	10/12/16	10/14/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

**DUP2**  
**T162527-11(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.48	6101238	10/12/16	10/14/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>590</b>	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>25</b>	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			77.0 %	40-160		"	"	"	"	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**SV4**

**T162527-12(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.43	6101238	10/12/16	10/14/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	"
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"	"
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	"
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	"
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	"
Chloromethane	ND	0.47	11	"	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"	"
Hexane	ND	0.44	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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*Katherine RunningCrane*



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:34

**SV4**

**T162527-12(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.43	6101238	10/12/16	10/14/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>16</b>	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			75.7 %		40-160		"	"	"	"

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101238 - Canister Analysis**

**Blank (6101238-BLK1)**

Prepared: 10/12/16 Analyzed: 10/13/16

<i>Surrogate: 4-Bromofluorobenzene</i>	35.0			ug/m <sup>3</sup> Air	45.3		77.3	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.30	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.56	13	"							
Bromodichloromethane	ND	0.15	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.54	4.0	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.099	4.7	"							
Chloroethane	ND	0.36	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.47	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.44	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	6.1	"							
1,3-Dichlorobenzene	ND	0.44	6.1	"							
1,4-Dichlorobenzene	ND	0.44	6.1	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethane	ND	0.28	4.0	"							

SunStar Laboratories, Inc.

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*Katherine RunningCrane*





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 Lake Forest, California 92630  
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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Nugget Mall  
 Project Number: [none]  
 Project Manager: Ben Wells

Reported:  
 10/18/16 16:34

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101238 - Canister Analysis**

**Blank (6101238-BLK1)**

Prepared: 10/12/16 Analyzed: 10/13/16

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m <sup>3</sup> Air							
trans-1,2-Dichloroethene	ND	0.22	4.0	"							
1,2-Dichloropropane	ND	0.13	4.7	"							
cis-1,3-Dichloropropene	ND	0.21	4.6	"							
trans-1,3-Dichloropropene	ND	0.21	4.6	"							
4-Ethyltoluene	ND	0.25	5.0	"							
Methylene chloride	ND	0.079	3.5	"							
Styrene	ND	0.19	4.3	"							
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"							
Tetrahydrofuran	ND	0.25	3.0	"							
Tetrachloroethene	ND	0.21	6.9	"							
1,1,2-Trichloroethane	ND	0.19	5.6	"							
1,1,1-Trichloroethane	ND	0.24	5.6	"							
Trichloroethene	ND	0.21	5.5	"							
Trichlorofluoromethane	ND	0.24	5.7	"							
1,3,5-Trimethylbenzene	ND	0.49	5.0	"							
1,2,4-Trimethylbenzene	ND	0.33	5.0	"							
Vinyl acetate	ND	0.18	3.6	"							
Vinyl chloride	ND	0.052	2.6	"							
1,4-Dioxane	ND	0.97	18	"							
2-Butanone (MEK)	ND	0.45	15	"							
Methyl isobutyl ketone	ND	0.14	42	"							
Benzene	ND	0.14	3.3	"							
Toluene	ND	0.14	3.8	"							
Ethylbenzene	ND	0.14	4.4	"							
m,p-Xylene	ND	0.20	8.8	"							
o-Xylene	ND	0.085	4.4	"							

SunStar Laboratories, Inc.

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*Katherine HummingCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101238 - Canister Analysis**

**Duplicate (6101238-DUP1)**

**Source: T162527-01**

Prepared: 10/12/16 Analyzed: 10/13/16

<i>Surrogate: 4-Bromofluorobenzene</i>	39.0			ug/m <sup>3</sup> Air	45.3		86.2	40-160			
Acetone	ND	0.49	12	"		ND				30	
1,3-Butadiene	ND	0.30	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	ND	0.56	13	"		ND				30	
Bromodichloromethane	ND	0.15	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.54	4.0	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.099	4.7	"		ND				30	
Chloroethane	ND	0.36	2.7	"		ND				30	
Chloroform	ND	0.15	5.0	"		ND				30	
Chloromethane	ND	0.47	11	"		ND				30	
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	ND	0.44	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	6.1	"		ND				30	
1,3-Dichlorobenzene	ND	0.44	6.1	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	6.1	"		2.90				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	

SunStar Laboratories, Inc.

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*Katherine HummingCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

Reported:  
10/18/16 16:34

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6101238 - Canister Analysis**

Duplicate (6101238-DUP1)	Source: T162527-01			Prepared: 10/12/16 Analyzed: 10/13/16		
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m <sup>3</sup> Air	ND	30
trans-1,2-Dichloroethene	ND	0.22	4.0	"	ND	30
1,2-Dichloropropane	ND	0.13	4.7	"	ND	30
cis-1,3-Dichloropropene	ND	0.21	4.6	"	ND	30
trans-1,3-Dichloropropene	ND	0.21	4.6	"	ND	30
4-Ethyltoluene	ND	0.25	5.0	"	ND	30
Methylene chloride	ND	0.079	3.5	"	ND	30
Styrene	ND	0.19	4.3	"	ND	30
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	ND	30
Tetrahydrofuran	ND	0.25	3.0	"	ND	30
Tetrachloroethene	ND	0.21	6.9	"	ND	30
1,1,2-Trichloroethane	ND	0.19	5.6	"	ND	30
1,1,1-Trichloroethane	ND	0.24	5.6	"	ND	30
Trichloroethene	ND	0.21	5.5	"	ND	30
Trichlorofluoromethane	ND	0.24	5.7	"	ND	30
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	ND	30
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	ND	30
Vinyl acetate	ND	0.18	3.6	"	ND	30
Vinyl chloride	ND	0.052	2.6	"	ND	30
1,4-Dioxane	ND	0.97	18	"	ND	30
2-Butanone (MEK)	ND	0.45	15	"	ND	30
Methyl isobutyl ketone	ND	0.14	42	"	ND	30
Benzene	ND	0.14	3.3	"	ND	30
Toluene	ND	0.14	3.8	"	ND	30
Ethylbenzene	ND	0.14	4.4	"	ND	30
m,p-Xylene	ND	0.20	8.8	"	ND	30
o-Xylene	ND	0.085	4.4	"	ND	30

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Nugget Mall  
Project Number: [none]  
Project Manager: Ben Wells

**Reported:**  
10/18/16 16:34

### Notes and Definitions

TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.

J Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)

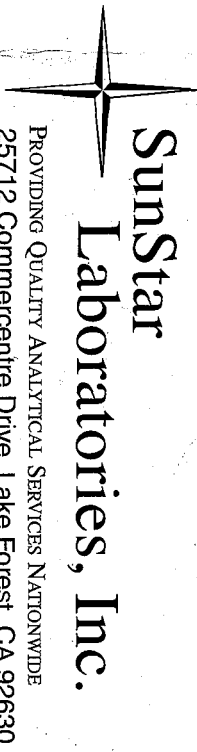
NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

# AIR LABORATORY

## Chain of Custody Record



Client: ERG  
 Address: 1038 Redwood Hwy Steel  
 Phone: 415-381-6574 Fax: \_\_\_\_\_  
 Project Manager: Ben Wens

Date: 10-7-16 Page: 1 of 1  
 Project Name: N Jager Mail  
 Collector: Y Boytom Client Project #: \_\_\_\_\_  
 Batch #: 7102527 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type: (Soil Gas / Air)	Container Type: (Summa Can / Tedlar)	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	Summa Can # / Comments	Laboratory ID #
SV3	10-6-16	1823	1835	Soil Gas	Summa	29	2.5							0303	01
SV5	10-6-16	1905	1920	Soil Gas	Summa	30	2.5							0419	02
SV11	10-7-16	1532	1542	Soil Gas	Summa	30	2.5							0315	03
SV8	12-8-12	1231	1231	Soil Gas	Summa	30	4							0759	04
SV1	12-16-12	1750	1750	Soil Gas	Summa	30	3							0761	05
SV16	13-6-13	1359	1359	Soil Gas	Summa	30	3							0737	06
SV9	14-25-14	1434	1439	Soil Gas	Summa	30	1							0737	07
SSZ	14-29-14	1439	1439	Soil Gas	Summa	30	1							0737	08
SV16	14-55-14	1500	1500	Soil Gas	Summa	30	1							0738	09
DUD1	11-40-11	1155	1155	Soil Gas	Summa	30	1							0195	10
DUD2	10-20-10	1045	1045	Soil Gas	Summa	30	1							0195	11
SV4	16-11-16	1622	1622	Soil Gas	Summa	30	2.5							0248	12

Relinquished by: (signature) [Signature] Date / Time 10-7-16 1645  
 Received by: (signature) \_\_\_\_\_ Date / Time \_\_\_\_\_  
 Relinquished by: (signature) \_\_\_\_\_ Date / Time \_\_\_\_\_  
 Received by: (signature) \_\_\_\_\_ Date / Time \_\_\_\_\_  
 Relinquished by: (signature) \_\_\_\_\_ Date / Time \_\_\_\_\_  
 Received by: (signature) \_\_\_\_\_ Date / Time \_\_\_\_\_

Total # of containers \_\_\_\_\_  
 Chain of Custody seals Y/N (N)  
 Seals intact? Y/N (N)  
 Received good condition/cold \_\_\_\_\_  
 Turn around time: STD

Notes \_\_\_\_\_

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7162527

Client Name: EEG Project: NAUGET MAIL

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: SUNNY Date/Time Lab Received: 10.12.16 / 9:45

Total number of coolers received: 0

Temperature: Cooler #1	- °C +/- the CF (- 0.2°C) = -		°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =		°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>			
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No →	<b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No →	<b>Complete Non-Conformance Sheet</b>

Custody seals intact on cooler/sample  Yes  No\*  N/A

Sample containers intact  Yes  No\*

Sample labels match Chain of Custody IDs  Yes  No\*

Total number of containers received match COC  Yes  No\*

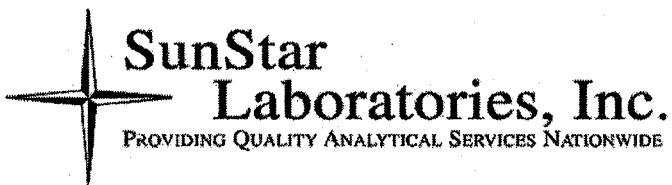
Proper containers received for analyses requested on COC  Yes  No\*

Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked      Cooler/Sample Review - Initials and date: SA 10.12.16

**Comments:** \_\_\_\_\_



Project Name: ALASKA				
Company: ERG		Name: BEN WELLS		
		Phone: (415)381-6574		
Item		Quantity	Unit	
2 oz Jars 24/CS				
4 oz Jars 24/CS		2	CASES	
8 oz Jars 12/CS				
40 ml unpreserved VOAs 100/box				
40 ml HCL-preserved VOAs 72/box		1	BOX	
250 ml Poly 24/CS				
1 Liter Poly 12/CS				
500 ml Poly 16/CS				
500 ml Amber Bottle Wide 12/CS				
1 Liter Amber Bottle 12/CS				
1 Gallon Poly 4/box				
5035 kits:(2)Sodium Bisulfate VOAs 72/box		50		
	(1) Methanol VOA 72/box	25	already invoiced	
	(1)Syringe 50/pack	25		
Lock-N-Load Handle 1/pack		1		
Tedlar Bags 10/pack				
Manifold, Inst. Sampler, Variable Sampler		4-MANIFOLDS (150), 8-SAMPLERS (24 HR)		
Sub Slab Insert w/ washer & N/F			CHARGE - 4 MANI.	
Soil Gas SS 16" Drop Tubes				
Gas Extraction Fittings				
Soil Gas Filters				
		# SENT	USED	UNUSED
Batch Certified Summa Canisters	400cc			
	1L	5 (NITRO)	4	
	3L			
	6L	1 (PURGE)	0	
Individually Certified Summa Canisters	400cc			
	1L	21	17	
	3L	8	0	
	6L			
Cooler (Sm, Med, Lrg) Number & Quantity		1-LRG, 1-MED		
Swagelok Fittings: Nuts/Ferrules, Ts		21-NUTS/FERRULES	CHARGE - 21	
Other: Poly Tube, Valves,Silicon Tape, etc.				
Prepared By: DAN M.		Date:	9/28/16	
Reviewed By:		Date :		

# Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 10/12/2016

User Name: Lounethone, Sunny

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0028	1000cc: 1000cc Summa	0028	Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
0072	1000cc: 1000cc Summa	0072	Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
0195	1000cc: 1000cc Summa	0195	Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
0248	1000cc: 1000cc Summa	0248	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0254	1000cc: 1000cc Summa	0254	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0281	1000cc: 1000cc Summa	0281	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0303	1000cc: 1000cc Summa	0303	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0315	1000cc: 1000cc Summa	0315	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0327	1000cc: 1000cc Summa	0327	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0336	1000cc: 1000cc Summa	0336	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
0423	1000cc: 1000cc Summa	0423	Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
0465	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
0737	1000cc: 1000cc Summa	0737	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
0759	1000cc: 1000cc Summa	0759	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
0761	1000cc: 1000cc Summa	0761	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
0771	1000cc: 1000cc Summa	0771	Sunstar Labs, SunStar Labs - South	ERG-Ben	Ben Wells
2046	Vapor Manifold: Vapor Manifold	2046	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
2048	Vapor Manifold: Vapor Manifold	2048	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
2065	Vapor Manifold: Vapor Manifold	2065	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells



# Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 10/12/2016

User Name: Lounethone, Sunny

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
2066	Vapor Manifold: Vapor Manifold	2066	Sunstar Labs, Lake Forest Air Lab	ERG-Ben	Ben Wells
619	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
645	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
665	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
672	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells
689	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Ben	Ben Wells

## Katherine RunningCrane

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**From:** Yola Bayram [ybayram@environmentalrg.com]  
**Sent:** Wednesday, October 12, 2016 12:14 PM  
**To:** 'Katherine RunningCrane'  
**Cc:** 'Rod Satre'; bwells@environmentalrg.com  
**Subject:** RE: Samples received today

**Importance:** High

Hi Katherine

I'm leaving the office in 20 minutes to hop on a flight so please give Ben or Rod a call about this. But I remember these samples being in a bubble wrap bag possibly with some of the groundwater VOAs. I'll be out of the office for a couple weeks.

**Also Ben would like to rush SV1 and SV2 soil gas samples, which are samples that you received today.**

Thanks!

Yola Bayram  
Geologist  
510-671-2088 - Direct  
313-204-8477 - cell

---

**From:** Katherine RunningCrane [mailto:kshields@sunstarlabs.com]  
**Sent:** Wednesday, October 12, 2016 11:41 AM  
**To:** 'Yola Bayram' <ybayram@environmentalrg.com>  
**Subject:** RE: Samples received today

Hi Yola,

I will give you a call about this after lunch.

Sincerely,

*Katherine Running Crane*

Project Manager  
SunStar Laboratories, Inc.  
phone: (949) 297-5020

---

**From:** Yola Bayram [mailto:ybayram@environmentalrg.com]  
**Sent:** Tuesday, October 11, 2016 6:02 PM  
**To:** 'Katherine RunningCrane'  
**Cc:** [bwells@environmentalrg.com](mailto:bwells@environmentalrg.com)  
**Subject:** RE: Samples received today

Yes..I forgot about the monitoring well samples. Please analyze all 4 for CVOCs.

We didn't have enough jars so we used bags for those 4 samples listed as improper. They can still be analyzed, correct? Also yes that was a misspelling and the container with a label that says T2-5 collected at 1015am is correct.

Please check again because I definitely collected 3 terracores for every sample and C1-5.5' was the first sample I collected and I distinctly remember collecting soil for the methanol VOA and the two sodium bisulfate VOAs for that one.

Thanks

Yola Bayram  
Geologist  
510-671-2088 - Direct  
313-204-8477 - cell

---

**From:** Katherine RunningCrane [<mailto:kshields@sunstarlabs.com>]  
**Sent:** Tuesday, October 11, 2016 5:19 PM  
**To:** 'Yola Bayram' <[ybayram@environmentalrg.com](mailto:ybayram@environmentalrg.com)>  
**Subject:** RE: Samples received today

Actually, it looks like we received 4 samples that were not on the COC: MW-1, MW-2, MW-3 & DUP1). Do you want Chlorinated VOCs for all 4 samples? On page 5 of the attached COC, please see the non-conformance sheet. There is also a mention of improper containers. For sample C1-5.5, we only received one methanol VOA. The methanol VOA contained too much soil (about 23g and the method required about 6g) and we will not be able to analyze that sample since we did not receive Sodium Bisulfate VOAs for that sample. Please let me know how you want me to proceed. Thanks!

Sincerely,

*Katherine Running Crane*

Project Manager  
SunStar Laboratories, Inc.  
phone: (949) 297-5020

---

**From:** Yola Bayram [<mailto:ybayram@environmentalrg.com>]  
**Sent:** Tuesday, October 11, 2016 5:02 PM  
**To:** 'Katherine RunningCrane'  
**Cc:** [bwells@environmentalrg.com](mailto:bwells@environmentalrg.com)  
**Subject:** RE: Samples received today

This is for the samples you received today. The soil and groundwater samples that came in a white cooler.

---

**From:** Katherine RunningCrane [<mailto:kshields@sunstarlabs.com>]  
**Sent:** Tuesday, October 11, 2016 4:58 PM  
**To:** 'Yola Bayram' <[ybayram@environmentalrg.com](mailto:ybayram@environmentalrg.com)>  
**Cc:** [bwells@environmentalrg.com](mailto:bwells@environmentalrg.com)  
**Subject:** RE: Samples received today

Is this for the samples we will receive tomorrow?

Sincerely,

## *Katherine Running Crane*

Project Manager  
SunStar Laboratories, Inc.  
phone: (949) 297-5020

---

From: Yola Bayram [<mailto:ybayram@environmentalrg.com>]  
Sent: Tuesday, October 11, 2016 4:16 PM  
To: 'Katherine Shields'  
Cc: [bwells@environmentalrg.com](mailto:bwells@environmentalrg.com)  
Subject: Samples received today  
Importance: High

Hi Katherine

I'm going through my notes and I realized that I forgot to put a sample on the COC but it is in the cooler. The sample ID is Dup-1. It was sampled 10-5-16 at 1255. It's a groundwater sample with 3 voas that needs to be analyzed for CVOCs.

Thanks!

Yola Bayram  
Geologist  
510-671-2088 - Direct  
313-204-8477 - cell

No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4656/13191 - Release Date: 10/11/16

No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4656/13191 - Release Date: 10/11/16

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No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4656/13090 - Release Date: 09/26/16  
Internal Virus Database is out of date.

No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4656/13191 - Release Date: 10/11/16

No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2016.0.7294 / Virus Database: 4664/13196 - Release Date: 10/12/16



**WORK ORDER**

**T162527**

**Client: ERG-Environmental Resource Group**  
**Project: Nugget Mall**

**Project Manager: Katherine RunningCrane**  
**Project Number: [none]**

**Report To:**

ERG-Environmental Resource Group  
 Ben Wells  
 1038 Redwood Hwy Suite 1  
 Mill Valley, CA 94941

Date Due: 10/19/16 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 10/12/16 09:45

Logged In By: Sunny Lounethone

Date Logged In: 10/12/16 10:41

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
<b>T162527-01 SV3 [Air] Sampled 10/06/16 18:27 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/19/16 15:00	5	11/05/16 18:27	
<b>T162527-02 SV5 [Air] Sampled 10/06/16 19:05 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/19/16 15:00	5	11/05/16 19:05	
<b>T162527-03 SV11 [Air] Sampled 10/07/16 15:32 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/19/16 15:00	5	11/06/16 15:32	
<b>T162527-04 SV8 [Air] Sampled 10/07/16 12:18 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/19/16 15:00	5	11/06/16 12:18	
<b>T162527-05 SV1 [Air] Sampled 10/07/16 12:46 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/19/16 15:00	5	11/06/16 12:46	
<b>T162527-06 SV6 [Air] Sampled 10/07/16 13:50 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/19/16 15:00	5	11/06/16 13:50	
<b>T162527-07 SV9 [Air] Sampled 10/07/16 14:25 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/19/16 15:00	5	11/06/16 14:25	
<b>T162527-08 SS2 [Air] Sampled 10/07/16 14:29 (GMT-08:00) Pacific Time (US &amp;</b> TO-15	10/13/16 15:00	1	11/06/16 14:29	

**WORK ORDER**

**T162527**

**Client: ERG-Environmental Resource Group**  
**Project: Nugget Mall**

**Project Manager: Katherine RunningCrane**  
**Project Number: [none]**

Analysis	Due	TAT	Expires	Comments
<b>T162527-09 SV10 [Air] Sampled 10/07/16 14:55 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/19/16 15:00	5	11/06/16 14:55	
<b>T162527-10 DUP1 [Air] Sampled 10/07/16 11:40 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/19/16 15:00	5	11/06/16 11:40	
<b>T162527-11 DUP2 [Air] Sampled 10/07/16 10:30 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/19/16 15:00	5	11/06/16 10:30	
<b>T162527-12 SV4 [Air] Sampled 10/07/16 16:11 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	10/19/16 15:00	5	11/06/16 16:11	







25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

04 November 2016

Ben Wells  
ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley, CA 94941  
RE: Juneau, Alaska

Enclosed are the results of analyses for samples received by the laboratory on 10/28/16 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Katherine RunningCrane  
Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

**Reported:**  
11/04/16 15:41

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-5	T162715-01	Air	10/25/16 12:30	10/28/16 14:00
SS-6	T162715-02	Air	10/25/16 13:05	10/28/16 14:00
SS-6-D	T162715-03	Air	10/25/16 13:05	10/28/16 14:00
SS-4	T162715-04	Air	10/25/16 15:20	10/28/16 14:00

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

**Reported:**  
11/04/16 15:41

### DETECTIONS SUMMARY

**Sample ID:** SS-5 **Laboratory ID:** T162715-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Heptane	5.0	4.2		ug/m <sup>3</sup> Air	TO-15	
Hexane	370	3.6		ug/m <sup>3</sup> Air	TO-15	
1,1-Dichloroethane	9.0	4.1		ug/m <sup>3</sup> Air	TO-15	
4-Ethyltoluene	10	5.0		ug/m <sup>3</sup> Air	TO-15	
Tetrachloroethene	290	6.9		ug/m <sup>3</sup> Air	TO-15	
Trichloroethene	250	5.5		ug/m <sup>3</sup> Air	TO-15	
1,3,5-Trimethylbenzene	24	5.0		ug/m <sup>3</sup> Air	TO-15	
1,2,4-Trimethylbenzene	96	5.0		ug/m <sup>3</sup> Air	TO-15	
Benzene	7.7	3.3		ug/m <sup>3</sup> Air	TO-15	
Toluene	74	3.8		ug/m <sup>3</sup> Air	TO-15	
Ethylbenzene	20	4.4		ug/m <sup>3</sup> Air	TO-15	
m,p-Xylene	110	8.8		ug/m <sup>3</sup> Air	TO-15	
o-Xylene	33	4.4		ug/m <sup>3</sup> Air	TO-15	

**Sample ID:** SS-6 **Laboratory ID:** T162715-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Tetrachloroethene	1900	350		ug/m <sup>3</sup> Air	TO-15	TO-14

**Sample ID:** SS-6-D **Laboratory ID:** T162715-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
cis-1,2-Dichloroethene	430	200		ug/m <sup>3</sup> Air	TO-15	TO-14
Tetrachloroethene	2000	350		ug/m <sup>3</sup> Air	TO-15	TO-14
Vinyl chloride	310	130		ug/m <sup>3</sup> Air	TO-15	TO-14
m,p-Xylene	270	220		ug/m <sup>3</sup> Air	TO-15	TO-14

**Sample ID:** SS-4 **Laboratory ID:** T162715-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

**Reported:**  
11/04/16 15:41

**Sample ID:** SS-4

**Laboratory ID:** T162715-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Tetrachloroethene	840	350		ug/m <sup>3</sup> Air	TO-15	TO-14
Vinyl chloride	640	130		ug/m <sup>3</sup> Air	TO-15	TO-14

SunStar Laboratories, Inc.



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Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	Reported: 11/04/16 15:41
---	---	-----------------------------

**SS-5**  
**T162715-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	12	ug/m <sup>3</sup> Air	1.58	6102823	10/28/16	10/31/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
<b>Heptane</b>	<b>5.0</b>	4.2	"	"	"	"	"	"	
<b>Hexane</b>	<b>370</b>	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
<b>1,1-Dichloroethane</b>	<b>9.0</b>	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>4-Ethyltoluene</b>	<b>10</b>	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	Reported: 11/04/16 15:41
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**SS-5**  
**T162715-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Methylene chloride	ND	3.5	ug/m <sup>3</sup> Air	1.58	6102823	10/28/16	10/31/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>290</b>	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>250</b>	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>24</b>	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>96</b>	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
<b>Benzene</b>	<b>7.7</b>	3.3	"	"	"	"	"	"	
<b>Toluene</b>	<b>74</b>	3.8	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>20</b>	4.4	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>110</b>	8.8	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>33</b>	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 74.1 % 40-160 " " " "

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**SS-6**  
**T162715-02 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	120	ug/m <sup>3</sup> Air	1.64	6102823	10/28/16	10/28/16	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	Reported: 11/04/16 15:41
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**SS-6**  
**T162715-02 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Methylene chloride	ND	180	ug/m <sup>3</sup> Air	1.64	6102823	10/28/16	10/28/16	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>1900</b>	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14

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Project: Juneau, Alaska  
 Project Number: Juneau  
 Project Manager: Ben Wells

Reported:  
 11/04/16 15:41

**SS-6-D**  
**T162715-03 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	120	ug/m <sup>3</sup> Air	1.64	6102823	10/28/16	10/28/16	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
<b>cis-1,2-Dichloroethene</b>	<b>430</b>	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	Reported: 11/04/16 15:41
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**SS-6-D**  
**T162715-03 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Methylene chloride	ND	180	ug/m <sup>3</sup> Air	1.64	6102823	10/28/16	10/28/16	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>2000</b>	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
<b>Vinyl chloride</b>	<b>310</b>	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
<b>m,p-Xylene</b>	<b>270</b>	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14

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ERG-Environmental Resource Group  
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 Mill Valley CA, 94941

Project: Juneau, Alaska  
 Project Number: Juneau  
 Project Manager: Ben Wells

Reported:  
 11/04/16 15:41

**SS-4**  
**T162715-04 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	120	ug/m <sup>3</sup> Air	1.55	6102823	10/28/16	10/28/16	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

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**SS-4**  
**T162715-04 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TO-15**

Methylene chloride	ND	180	ug/m <sup>3</sup> Air	1.55	6102823	10/28/16	10/28/16	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
<b>Tetrachloroethene</b>	<b>840</b>	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
<b>Vinyl chloride</b>	<b>640</b>	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14

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ERG-Environmental Resource Group  
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 Mill Valley CA, 94941

Project: Juneau, Alaska  
 Project Number: Juneau  
 Project Manager: Ben Wells

Reported:  
 11/04/16 15:41

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6102823 - Canister Analysis**

**Blank (6102823-BLK1)**

Prepared: 10/28/16 Analyzed: 10/31/16

Acetone	ND	12	ug/m <sup>3</sup> Air							
1,3-Butadiene	ND	4.5	"							
Carbon Disulfide	ND	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"							
Isopropyl alcohol	ND	13	"							
Bromodichloromethane	ND	6.8	"							
Bromoform	ND	11	"							
Bromomethane	ND	4.0	"							
Carbon tetrachloride	ND	6.4	"							
Chlorobenzene	ND	4.7	"							
Chloroethane	ND	2.7	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	11	"							
Cyclohexane	ND	3.5	"							
Heptane	ND	4.2	"							
Hexane	ND	3.6	"							
Dibromochloromethane	ND	8.7	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,2-Dichlorobenzene	ND	6.1	"							
1,3-Dichlorobenzene	ND	6.1	"							
1,4-Dichlorobenzene	ND	6.1	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	4.1	"							
1,2-Dichloroethane	ND	4.1	"							
1,1-Dichloroethene	ND	4.0	"							
cis-1,2-Dichloroethene	ND	4.0	"							
trans-1,2-Dichloroethene	ND	4.0	"							
1,2-Dichloropropane	ND	4.7	"							
cis-1,3-Dichloropropene	ND	4.6	"							
trans-1,3-Dichloropropene	ND	4.6	"							
4-Ethyltoluene	ND	5.0	"							
Methylene chloride	ND	3.5	"							
Styrene	ND	4.3	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
Tetrahydrofuran	ND	3.0	"							

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	Reported: 11/04/16 15:41
---	---	-----------------------------

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6102823 - Canister Analysis**

**Blank (6102823-BLK1)**

Prepared: 10/28/16 Analyzed: 10/31/16

Tetrachloroethene	ND	6.9	ug/m <sup>3</sup> Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
<i>Surrogate: 4-Bromofluorobenzene</i>	33.0		"	45.3		73.0	40-160			

**Duplicate (6102823-DUP1)**

Source: T162715-01

Prepared: 10/28/16 Analyzed: 10/31/16

Acetone	ND	12	ug/m <sup>3</sup> Air		ND				30	
1,3-Butadiene	ND	4.5	"		ND				30	
Carbon Disulfide	ND	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"		ND				30	
Isopropyl alcohol	ND	13	"		ND				30	
Bromodichloromethane	ND	6.8	"		ND				30	
Bromoform	ND	11	"		ND				30	
Bromomethane	ND	4.0	"		ND				30	
Carbon tetrachloride	ND	6.4	"		ND				30	
Chlorobenzene	ND	4.7	"		ND				30	
Chloroethane	ND	2.7	"		ND				30	
Chloroform	ND	5.0	"		ND				30	
Chloromethane	ND	11	"		ND				30	
Cyclohexane	ND	3.5	"		ND				30	
Heptane	4.87	4.2	"		5.00			2.67	30	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Juneau, Alaska  
 Project Number: Juneau  
 Project Manager: Ben Wells

Reported:  
 11/04/16 15:41

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6102823 - Canister Analysis**

Duplicate (6102823-DUP1)	Source: T162715-01			Prepared: 10/28/16 Analyzed: 10/31/16		
Hexane	375	3.6	ug/m <sup>3</sup> Air	370	1.49	30
Dibromochloromethane	ND	8.7	"	ND		30
1,2-Dibromoethane (EDB)	ND	7.8	"	ND		30
1,2-Dichlorobenzene	ND	6.1	"	ND		30
1,3-Dichlorobenzene	ND	6.1	"	ND		30
1,4-Dichlorobenzene	ND	6.1	"	ND		30
Dichlorodifluoromethane	ND	5.0	"	ND		30
1,1-Dichloroethane	8.59	4.1	"	8.98	4.44	30
1,2-Dichloroethane	ND	4.1	"	ND		30
1,1-Dichloroethene	ND	4.0	"	ND		30
cis-1,2-Dichloroethene	ND	4.0	"	ND		30
trans-1,2-Dichloroethene	ND	4.0	"	ND		30
1,2-Dichloropropane	ND	4.7	"	ND		30
cis-1,3-Dichloropropene	ND	4.6	"	ND		30
trans-1,3-Dichloropropene	ND	4.6	"	ND		30
4-Ethyltoluene	9.47	5.0	"	10.4	9.52	30
Methylene chloride	ND	3.5	"	ND		30
Styrene	ND	4.3	"	ND		30
1,1,2,2-Tetrachloroethane	ND	7.0	"	ND		30
Tetrahydrofuran	ND	3.0	"	ND		30
Tetrachloroethene	294	6.9	"	293	0.372	30
1,1,2-Trichloroethane	ND	5.6	"	ND		30
1,1,1-Trichloroethane	ND	5.6	"	ND		30
Trichloroethene	248	5.5	"	250	0.971	30
Trichlorofluoromethane	ND	5.7	"	ND		30
1,3,5-Trimethylbenzene	24.3	5.0	"	24.3	0.00	30
1,2,4-Trimethylbenzene	94.6	5.0	"	96.4	1.90	30
Vinyl acetate	ND	3.6	"	ND		30
Vinyl chloride	ND	2.6	"	ND		30
1,4-Dioxane	ND	18	"	ND		30
2-Butanone (MEK)	ND	15	"	ND		30
Methyl isobutyl ketone	ND	42	"	ND		30
Benzene	7.60	3.3	"	7.70	1.34	30
Toluene	72.9	3.8	"	74.1	1.65	30
Ethylbenzene	19.8	4.4	"	20.5	3.12	30
m,p-Xylene	107	8.8	"	108	0.841	30

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	<b>Reported:</b> 11/04/16 15:41
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**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6102823 - Canister Analysis**

<b>Duplicate (6102823-DUP1)</b>	<b>Source: T162715-01</b>		Prepared: 10/28/16 Analyzed: 10/31/16							
o-Xylene	32.5	4.4	ug/m <sup>3</sup> Air		33.2			2.12	30	
Surrogate: 4-Bromofluorobenzene	35.0		"	45.3		77.3	40-160			

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager





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ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

**Reported:**  
11/04/16 15:41

### Notes and Definitions

- TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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SunStar Laboratories, Inc.

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---

Katherine RunningCrane, Project Manager



SunStar Laboratories Inc.  
 26712 Commerce Centre Dr.  
 Lake Forest, CA 92630

(949) 297-5020  
 (949) 297-5027 fax  
 (530) 304-5525 Bill Hannell

Form F-LP0005-1.2  
 Effective Date: 01/01/2016

Shipping Information

Canister Serial #	CHECK		Pressure (-30 +/- 2 psia)	Sample ID	Sample Date	Initial Pressure	Final Pressure	Sample Start Time	Sample Finish Time
	Date								
SSA-F 0499	10/24/16		-29	SS-5	10/24/16	-29	-4	12:30	12:40
2044			Temp 44.0 RH 53%						
0346			-29	SS-6		-29	-3	1:05	1:20
2032			Temp 39.7 RH 38%						
0301			-29	SS-6-D		-29	-3	1:05	1:20
6314			-29	SS-4		-29	-2	3:20	3:29
			Temp 69.1 RH 35%						

outside Temp

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 762715

Client Name: ERG Project: TUNEAU, ALASKA

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: SUNNY Date/Time Lab Received: 10-28-16 / 14:00

Total number of coolers received: 0

Temperature:	Cooler #1	°C +/- the CF (- 0.2°C) =	-	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C) =	=	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C) =	=	°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>			Within criteria?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>IF NO:</b>				
Samples received on ice?		<input type="checkbox"/> Yes	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>	
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>	

Custody seals intact on cooler/sample  Yes  No\*  N/A

Sample containers intact  Yes  No\*

Sample labels match Chain of Custody IDs  Yes  No\*

Total number of containers received match COC  Yes  No\*

Proper containers received for analyses requested on COC  Yes  No\*

Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 10-28-16

**Comments:** \_\_\_\_\_



<b>Project Name: NUGGET MALL</b>			
<b>Company: ERG</b>		<b>Name:</b>	<b>ROD SATRE</b>
		<b>Phone:</b>	
<b>Item</b>		<b>Quantity</b>	<b>Unit</b>
2 oz Jars 24/CS			
4 oz Jars 24/CS			
8 oz Jars 12/CS			
40 ml unpreserved VOAs 100/box			
40 ml HCL-preserved VOAs 72/box			
250 ml Poly 24/CS			
1 Liter Poly 12/CS			
500 ml Poly 16/CS			
500 ml Amber Bottle Wide 12/CS			
1 Liter Amber Bottle 12/CS			
1 Gallon Poly 4/box			
5035 kits:(2)Sodium Bisulfate VOAs 72/box			
	(1) Methanol VOA 72/box		
	(1)Syringe 50/pack		
Lock-N-Load Handle 1/pack			
Tedlar Bags 10/pack			
Manifold, Inst. Sampler, Variable Sampler		4-MANIFOLDS (150)	1-DUP. SAMPLER <small>3 MANIFOLDS CHARGE - 1 DUP SAMPLER</small>
Sub Slab Insert w/ washer & N/F			
Soil Gas SS 16" Drop Tubes			
Gas Extraction Fittings			
Soil Gas Filters			
		<b># SENT</b>	<b>USED</b>
<b>Batch Certified Summa Canisters</b>	400cc		
	1L	6 (4-P, 2-N)	4
	3L		
	6L		
<b>Individually Certified Summa Canisters</b>	400cc		
	1L	5	4
	3L		
	6L		
Cooler (Small, Medium, Large) Number & Quantity			
Swagelok Fittings: Nuts/Ferrules, Ts		6-NUT/FERRULE	CHARGE - 6
Other: Poly Tube, Valves, Silicon Tape, etc.			
<b>Prepared By: BRIAN</b>		<b>Date:</b>	<b>10/20/16</b>
<b>Reviewed By:</b>		<b>Date :</b>	

# Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 10/28/2016

User Name: Lounethone, Sunny

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0272	1000cc: 1000cc Summa	0272	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
0274	1000cc: 1000cc Summa	0274	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
0454	1000cc: 1000cc Summa	0454	Sunstar Labs, Tustin Air Lab	ERG-Rod	Rod Satre
0499	1000cc: 1000cc Summa	0499	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
0736	1000cc: 1000cc Summa	0736	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre
0780	1000cc: 1000cc Summa	0780	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre
2032	Vapor Manifold: Vapor Manifold	2032	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
2044	Vapor Manifold: Vapor Manifold	2044	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
2062	Vapor Manifold: Vapor Manifold	2062	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
2070	Vapor Manifold: Vapor Manifold	2070	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre
3000	Duplicate Sampler	3000	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre
651	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Rod	Rod Satre
666	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Rod	Rod Satre
683	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	ERG-Rod	Rod Satre

**WORK ORDER**

**T162715**

**Client: ERG-Environmental Resource Group**  
**Project: Juneau, Alaska**

**Project Manager: Katherine RunningCrane**  
**Project Number: Juneau**

**Report To:**

ERG-Environmental Resource Group  
 Ben Wells  
 1038 Redwood Hwy Suite 1  
 Mill Valley, CA 94941

Date Due: 11/04/16 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 10/28/16 14:00

Logged In By: Sunny Lounethone

Date Logged In: 10/28/16 14:29

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
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**T162715-01 SS-5 [Air] Sampled 10/25/16 12:30 (GMT-08:00) Pacific Time (US &**

TO-15	11/04/16 15:00	5	11/24/16 12:30	
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**T162715-02 SS-6 [Air] Sampled 10/25/16 13:05 (GMT-08:00) Pacific Time (US &**

TO-15	11/04/16 15:00	5	11/24/16 13:05	
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**T162715-03 SS-6-D [Air] Sampled 10/25/16 13:05 (GMT-08:00) Pacific Time (US &**

TO-15	11/04/16 15:00	5	11/24/16 13:05	
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**T162715-04 SS-4 [Air] Sampled 10/25/16 15:20 (GMT-08:00) Pacific Time (US &**

TO-15	11/04/16 15:00	5	11/24/16 15:20	
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08 November 2016

Ben Wells  
ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley, CA 94941  
RE: Juneau, Alaska

Enclosed are the results of analyses for samples received by the laboratory on 10/31/16 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane  
Project Manager





25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

**Reported:**  
11/08/16 13:09

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Joann-1-S	T162731-01	Air	10/26/16 16:00	10/31/16 10:00
Joann-2-N	T162731-02	Air	10/26/16 16:05	10/31/16 10:00
Outside-N	T162731-03	Air	10/26/16 16:10	10/31/16 10:00

*Katherine RunningCrane*

ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Juneau, Alaska  
 Project Number: Juneau  
 Project Manager: Ben Wells

**Reported:**  
 11/08/16 13:09

### DETECTIONS SUMMARY

**Sample ID:** Joann-1-S **Laboratory ID:** T162731-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Benzene	1.8	3.3	ug/m <sup>3</sup> Air	TO-15	J
Toluene	17	3.8	ug/m <sup>3</sup> Air	TO-15	
m,p-Xylene	3.0	8.8	ug/m <sup>3</sup> Air	TO-15	J

**Sample ID:** Joann-2-N **Laboratory ID:** T162731-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Benzene	1.7	3.3	ug/m <sup>3</sup> Air	TO-15	J
Toluene	14	3.8	ug/m <sup>3</sup> Air	TO-15	
m,p-Xylene	2.3	8.8	ug/m <sup>3</sup> Air	TO-15	J

**Sample ID:** Outside-N **Laboratory ID:** T162731-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Toluene	2.5	3.8	ug/m <sup>3</sup> Air	TO-15	J

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

Reported:  
11/08/16 13:09

**Joann-1-S**  
**T162731-01(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.42	6110126	11/01/16	11/01/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

Reported:  
11/08/16 13:09

**Joann-1-S**  
**T162731-01(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.42	6110126	11/01/16	11/01/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
<b>Benzene</b>	<b>1.8</b>	0.14	3.3	"	"	"	"	"	"	J
<b>Toluene</b>	<b>17</b>	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>3.0</b>	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			71.2%	40-160		"	"	"	"	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

Reported:  
11/08/16 13:09

**Joann-2-N**  
**T162731-02(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.44	6110126	11/01/16	11/01/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

Reported:  
11/08/16 13:09

**Joann-2-N**  
**T162731-02(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.44	6110126	11/01/16	11/01/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
<b>Benzene</b>	<b>1.7</b>	0.14	3.3	"	"	"	"	"	"	J
<b>Toluene</b>	<b>14</b>	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>2.3</b>	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			73.8 %	40-160		"	"	"	"	

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

Reported:  
11/08/16 13:09

**Outside-N**  
**T162731-03(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Acetone	ND	0.49	12	ug/m <sup>3</sup> Air	1.51	6110126	11/01/16	11/01/16	TO-15	
1,3-Butadiene	ND	0.30	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.56	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.15	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.54	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.099	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.36	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.47	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.44	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	3.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

Reported:  
11/08/16 13:09

**Outside-N**  
**T162731-03(Air)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**TO-15**

Styrene	ND	0.19	4.3	ug/m <sup>3</sup> Air	1.51	6110126	11/01/16	11/01/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
<b>Toluene</b>	<b>2.5</b>	0.14	3.8	"	"	"	"	"	"	J
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

73.9 %

40-160

"

"

"

"





25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	Reported: 11/08/16 13:09
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**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6110126 - Canister Analysis**

**Blank (6110126-BLK1)**

Prepared & Analyzed: 11/01/16

<i>Surrogate: 4-Bromofluorobenzene</i>	32.4			ug/m <sup>3</sup> Air	45.3		71.5	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.30	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.56	13	"							
Bromodichloromethane	ND	0.15	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.54	4.0	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.099	4.7	"							
Chloroethane	ND	0.36	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.47	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.44	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	6.1	"							
1,3-Dichlorobenzene	ND	0.44	6.1	"							
1,4-Dichlorobenzene	ND	0.44	6.1	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethane	ND	0.28	4.0	"							

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

Reported:  
11/08/16 13:09

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6110126 - Canister Analysis**

**Blank (6110126-BLK1)**

Prepared & Analyzed: 11/01/16

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m <sup>3</sup> Air							
trans-1,2-Dichloroethene	ND	0.22	4.0	"							
1,2-Dichloropropane	ND	0.13	4.7	"							
cis-1,3-Dichloropropene	ND	0.21	4.6	"							
trans-1,3-Dichloropropene	ND	0.21	4.6	"							
4-Ethyltoluene	ND	0.25	5.0	"							
Methylene chloride	ND	0.079	3.5	"							
Styrene	ND	0.19	4.3	"							
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"							
Tetrahydrofuran	ND	0.25	3.0	"							
Tetrachloroethene	ND	0.21	6.9	"							
1,1,2-Trichloroethane	ND	0.19	5.6	"							
1,1,1-Trichloroethane	ND	0.24	5.6	"							
Trichloroethene	ND	0.21	5.5	"							
Trichlorofluoromethane	ND	0.24	5.7	"							
1,3,5-Trimethylbenzene	ND	0.49	5.0	"							
1,2,4-Trimethylbenzene	ND	0.33	5.0	"							
Vinyl acetate	ND	0.18	3.6	"							
Vinyl chloride	ND	0.052	2.6	"							
1,4-Dioxane	ND	0.97	18	"							
2-Butanone (MEK)	ND	0.45	15	"							
Methyl isobutyl ketone	ND	0.14	42	"							
Benzene	ND	0.14	3.3	"							
Toluene	ND	0.14	3.8	"							
Ethylbenzene	ND	0.14	4.4	"							
m,p-Xylene	ND	0.20	8.8	"							
o-Xylene	ND	0.085	4.4	"							

SunStar Laboratories, Inc.

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*Katherine RunningCrane*



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ERG-Environmental Resource Group  
 1038 Redwood Hwy Suite 1  
 Mill Valley CA, 94941

Project: Juneau, Alaska  
 Project Number: Juneau  
 Project Manager: Ben Wells

Reported:  
 11/08/16 13:09

**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6110126 - Canister Analysis**

**Duplicate (6110126-DUP1)**

**Source: T162731-01**

Prepared & Analyzed: 11/01/16

<i>Surrogate: 4-Bromofluorobenzene</i>	33.5			ug/m <sup>3</sup> Air	45.3		74.1	40-160			
Acetone	ND	0.49	12	"		ND				30	
1,3-Butadiene	ND	0.30	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	ND	0.56	13	"		ND				30	
Bromodichloromethane	ND	0.15	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.54	4.0	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.099	4.7	"		ND				30	
Chloroethane	ND	0.36	2.7	"		ND				30	
Chloroform	ND	0.15	5.0	"		ND				30	
Chloromethane	ND	0.47	11	"		ND				30	
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	ND	0.44	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	6.1	"		ND				30	
1,3-Dichlorobenzene	ND	0.44	6.1	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	6.1	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	

SunStar Laboratories, Inc.

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*Katherine RunningCrane*



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ERG-Environmental Resource Group 1038 Redwood Hwy Suite 1 Mill Valley CA, 94941	Project: Juneau, Alaska Project Number: Juneau Project Manager: Ben Wells	Reported: 11/08/16 13:09
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**TO-15 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6110126 - Canister Analysis**

Duplicate (6110126-DUP1)	Source: T162731-01			Prepared & Analyzed: 11/01/16							
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air		ND				30	
trans-1,2-Dichloroethene	ND	0.22	4.0	"		ND				30	
1,2-Dichloropropane	ND	0.13	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
4-Ethyltoluene	ND	0.25	5.0	"		ND				30	
Methylene chloride	ND	0.079	3.5	"		ND				30	
Styrene	ND	0.19	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"		ND				30	
Tetrahydrofuran	ND	0.25	3.0	"		ND				30	
Tetrachloroethene	ND	0.21	6.9	"		ND				30	
1,1,2-Trichloroethane	ND	0.19	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	0.24	5.6	"		ND				30	
Trichloroethene	ND	0.21	5.5	"		ND				30	
Trichlorofluoromethane	ND	0.24	5.7	"		ND				30	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"		ND				30	
Vinyl acetate	ND	0.18	3.6	"		ND				30	
Vinyl chloride	ND	0.052	2.6	"		ND				30	
1,4-Dioxane	ND	0.97	18	"		ND				30	
2-Butanone (MEK)	ND	0.45	15	"		ND				30	
Methyl isobutyl ketone	ND	0.14	42	"		ND				30	
Benzene	1.66	0.14	3.3	"		1.75		5.41		30	J
Toluene	15.7	0.14	3.8	"		17.0		8.32		30	
Ethylbenzene	ND	0.14	4.4	"		ND				30	
m,p-Xylene	2.76	0.20	8.8	"		3.01		8.70		30	J
o-Xylene	ND	0.085	4.4	"		ND				30	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Katherine RunningCrane*

ERG-Environmental Resource Group  
1038 Redwood Hwy Suite 1  
Mill Valley CA, 94941

Project: Juneau, Alaska  
Project Number: Juneau  
Project Manager: Ben Wells

**Reported:**  
11/08/16 13:09

### Notes and Definitions

J Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7102721

Client Name: ERC Project: JUNEAU, ALASKA

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: SUNNY Date/Time Lab Received: 10-31-16 / 10:00

Total number of coolers received: 0

Temperature: Cooler #1	- °C +/- the CF (- 0.2°C) = -		°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =		°C corrected temperature

**Temperature criteria = ≤ 6°C (no frozen containers)** Within criteria?  Yes  No

**IF NO:**

Samples received on ice?  Yes  No → **Complete Non-Conformance Sheet**

If on ice, samples received same day collected?  Yes → Acceptable  No → **Complete Non-Conformance Sheet**

- Custody seals intact on cooler/sample  Yes  No\*  N/A
- Sample containers intact  Yes  No\*
- Sample labels match Chain of Custody IDs  Yes  No\*
- Total number of containers received match COC  Yes  No\*
- Proper containers received for analyses requested on COC  Yes  No\*
- Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A
- Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked. Cooler/Sample Review - Initials and date: SL 10-31-16

**Comments:** \_\_\_\_\_





# Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 10/31/2016

User Name: Lounethone, Sunny

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
4008	Variable Sampler: Variable Sampler	4008	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
4011	Variable Sampler: Variable Sampler	4011	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre
4018	Variable Sampler: Variable Sampler	4018	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre
5020	3.2L: 3.2L Entech Summa	5020	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre
5026	3.2L: 3.2L Entech Summa	5026	Sunstar Labs, Lake Forest Air Lab	ERG-Rod	Rod Satre
5044	3.2L: 3.2L Entech Summa	5044	Sunstar Labs, SunStar Labs - South	ERG-Rod	Rod Satre



**WORK ORDER**

**T162731**

**Client:** ERG-Environmental Resource Group  
**Project:** Juneau, Alaska

**Project Manager:** Katherine RunningCrane  
**Project Number:** Juneau

**Report To:**

ERG-Environmental Resource Group  
Ben Wells  
1038 Redwood Hwy Suite 1  
Mill Valley, CA 94941

Date Due: 11/07/16 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 10/31/16 10:00

Logged In By: Sunny Lounethone

Date Logged In: 10/31/16 10:32

Samples Received at:


Custody Seals No Received On Ice No  
Containers Intact Yes  
COC/Labels Agree Yes  
Preservation Confirmed No

Analysis	Due	TAT	Expires	Comments
<b>T162731-01 Joann-1-S [Air] Sampled 10/26/16 16:00 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	11/07/16 15:00	5	11/25/16 16:00	
<b>T162731-02 Joann-2-N [Air] Sampled 10/26/16 16:05 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	11/07/16 15:00	5	11/25/16 16:05	
<b>T162731-03 Outside-N [Air] Sampled 10/26/16 16:10 (GMT-08:00) Pacific Time (US &amp;</b>				
TO-15	11/07/16 15:00	5	11/25/16 16:10	

## APPENDIX D

**SOIL GAS FIELD WORKSHEET**

Project Name: Nuggett Mail Date: 10-5-16 Sampler: VB  
 Location: 2092 Jordan Ave Client: RTC Weather: Cloudy/dry

Sampler Signature:  Sample ID: SV7 SV2 SS-3 SS-1 SV3 SV5  
 Sample Canister ID: SSAT-607 SSAT-0341 0124 0376 0303 0465  
 Train ID#: SSAT-2046 SSAT-2066 SSAT-2065 2065 2046 2048  
 Case Volume (L): 0.8L 0.8L NA Substab Substab 0.8L 0.8L  
 Initial PID Reading: 0 0 0 0 0 0

Shut-in Test	Time Start	<u>1540</u>	<u>1716</u>	<u>1000</u>	<u>1115</u>	<u>1800</u>	<u>1840</u>
	Time Finish	<u>1543</u>	<u>1720</u>	<u>1005</u>	<u>1120</u>	<u>1805</u>	<u>1845</u>
	Vacuum Start (in Hg)	<u>30</u>	<u>17 27.5</u>	<u>30</u>	<u>29</u>	<u>29</u>	<u>30</u>
	Vacuum Finish (in Hg)	<u>30</u>	<u>17 27.5</u>	<u>30</u>	<u>29</u>	<u>29</u>	<u>30</u>

Sample Purge	Time Start	<u>1544</u>	<u>1720</u>	—	—	<u>1806</u>	<u>1845</u>
	Time Finish	<u>1600</u>	<u>1734</u>	—	—	<u>1826</u>	<u>1905</u>
	Vacuum Start	<u>30</u>	<u>17 <del>27.5</del></u>	—	—	<u>NA</u>	<u>NA</u>
	Vacuum Finish (in Hg)	<u>17 <del>30</del></u>	<u>17 <del>27.5</del> 4</u>	—	—	<u>1L 2.5 Tedlars</u>	<u>2.5 1L Tedlars</u>
	Purge Rate (ml/min)	<u>~150</u>	<u>~150</u>	—	—	<u>~150ml</u>	<u>~150ml</u>

Sample Collection	Time Start	<u>1600</u>	<u>1735</u>	<u>1005</u>	<u>1121</u>	<u>1827</u>	<u>1905</u>
	Time Finish	<u>1615</u>	<u>1750</u>	<u>1020</u>	<u>1135</u>	<u>1835</u>	<u>1920</u>
	Vacuum Start (in Hg)	<u>29</u>	<u>&gt;30</u>	<u>30</u>	<u>29</u>	<u>29</u>	<u>30</u>
	Vacuum Finish (in Hg)	<u>2</u>	<u>4</u>	<u>0</u>	<u>0</u>	<u>2.5</u>	<u><del>2.5</del></u>
	Sample Rate (ml/min)	<u>~150</u>	<u>~150</u>	<u>~150</u>	<u>~150</u>	<u>~150</u>	<u>~150</u>

Tubing	Tube Diameter (inches)	0.17	0.25	0.5	0.75		
	Volume (liters per foot)	0.004	0.010	0.039	0.087		
Sand Pack volumes	Height of Sand Pack (in)	<u>17</u>	Dry Bentonite Volume	Height of dry bent	12		
	Radius of Sand Pack (in)	<u>1.5</u>		Radius of dry bent	1.50		
	Porosity of Sand	0.3		Porosity of bentonite	0.3		
	Casing Volume of Sandpack (liters per foot)	<u>0.42</u>		Casing Volume of dry bentonite (liters per ft)	0.42		

Ran N<sub>2</sub> for 30 sec through manifold when reusing

### SOIL GAS FIELD WORKSHEET

Project Name: Nyget Mall Date: 10-7-16 Sampler: UB  
 Location: 2042 Jordan Ave Client: RTC Weather: Sunny

Sampler Signature:	Sample ID					
	<u>SV8</u>	<u>SV1</u>	<u>SV6</u>	<u>SV9</u>	<u>SS2</u>	<u>SV10</u>
Sample Canister ID	<u>0315</u>	<u>0759</u>	<u>0761</u>	<u>0072</u>	<u>0737</u>	<u>0771</u>
Train ID#	<u>2066</u>	<u>2066</u>	<u>2048</u>	<u>2048</u>	<u>2046</u>	<u>2066</u>
Case Volume (L)	<u>0.8L</u>	<u>0.8L</u>	<u>0.8L</u>	<u>0.8L</u>	<del>0.8L</del>	<u>0.8L</u>
Initial PID Reading	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Shut-in Test	Time Start	<u>1150</u>	<u>1240</u>	<u>1330</u>	<u>1410</u>	<u>1430</u>	<u>1435</u>
	Time Finish	<u>1155</u>	<u>1245</u>	<u>1335</u>	<u>1415</u>	<u>1435</u>	<u>1440</u>
	Vacuum Start (in Hg)	<u>&gt;30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>29</u>	<u>&gt;30</u>
	Vacuum Finish (in Hg)	<u>&gt;30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>29</u>	<u>&gt;30</u>

Sample Purge	Time Start	<u>1158</u>	<u>1230</u>	<u>1333</u>	<u>1409</u>	<u>—</u>	<u>1439</u>
	Time Finish	<u>1217</u>	<u>1245</u>	<u>1349</u>	<u>1424</u>	<u>—</u>	<u>1453</u>
	Vacuum Start	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>—</u>	<u>—</u>
	Vacuum Finish (in-Hg)	<u>2.5 Tedlar bags</u>	<u>2.5 Tedlar</u>	<u>2.5 Tedlar</u>	<u>2.5 Tedlar</u>	<u>—</u>	<u>2.5 Tedlar</u>
	Purge Rate (ml/min)	<u>~150ml</u>	<u>~150ml</u>	<u>~150ml</u>	<u>~150ml</u>	<u>—</u>	<u>150ml</u>

Sample Collection	Time Start	<u>1218</u>	<u>1246</u>	<u>1350</u>	<u>1425</u>	<u>1429</u>	<u>1455</u>
	Time Finish	<u>1234</u>	<u>1256</u>	<u>1359</u>	<u>1434</u>	<u>1439</u>	<u>1506</u>
	Vacuum Start (in Hg)	<u>&gt;30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>29</u>	<u>&gt;30</u>
	Vacuum Finish (in Hg)	<u>4</u>	<u>4</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>4</u>
	Sample Rate (ml/min)	<u>~150ml</u>	<u>~150ml</u>	<u>~150ml</u>	<u>~150ml</u>	<u>~150ml</u>	<u>~150ml</u>

Tubing	Tube Diameter (inches)	<u>0.17</u>	<u>0.25</u>	<u>0.5</u>	<u>0.75</u>
		Volume (liters per foot)	<u>0.004</u>	<u>0.010</u>	<u>0.039</u>
Sand Pack volumes	Height of Sand Pack (in)	<u>6</u>	Dry Bentonite Volume	Height of dry bent	<u>12</u>
	Radius of Sand Pack (in)	<u>1.50</u>		Radius of dry bent	<u>1.50</u>
	Porosity of Sand	<u>0.3</u>		Porosity of bentonite	<u>0.3</u>
	Casing Volume of Sandpack (liters per foot)	<u>0.21</u>		Casing Volume of dry bentonite (liters per ft)	<u>0.42</u>

Ran N<sub>2</sub> through manifolds between wells

(30 sec) Dup 2: SS2 time: 1030 → 1045 P: 26/1 0195 (5)

(5) 0028 Dup 1: SV9 time: 1140 → 1155 P: 20/1 → 2046 (1)



### SOIL GAS FIELD WORKSHEET

Project Name: <b>Nugget Mall</b>	Date: <b>10-7-16</b>	Sampler:
Location:	Client:	Weather:

Sampler Signature:		Sample ID					
		SV11		SV4			
Sample Canister ID		619	0248				
Train ID#		2048	2048				
Case Volume (L)		0.8L	0.8L				
Initial PID Reading		<del>0</del>	<del>0</del>				
Shut-in Test	Time Start	1510	1605				
	Time Finish	1515	1610				
	Vacuum Start (in Hg)	30	30				
	Vacuum Finish (in Hg)	30	30				
Sample Purge	Time Start	1516	1552				
	Time Finish	1531	1608				
	Vacuum Start	—	—				
	Vacuum Finish (in Hg)	2.5 Tellers	2.5 tellers				
	Purge Rate (ml/min)	~150ml	150ml				
Sample Collection	Time Start	1532	1611				
	Time Finish	1642	1622				
	Vacuum Start (in Hg)	30	30				
	Vacuum Finish (in Hg)	2.5	2.5				
	Sample Rate (ml/min)	~150ml	~150ml				

Tubing	Tube Diameter (inches)	0.17	0.25	0.5	0.75		
	Volume (liters per foot)	0.004	0.010	0.039	0.087		
Sand Pack volumes	Height of Sand Pack (in)	6	Dry Bentonite Volume	Height of dry bent	12		
	Radius of Sand Pack (in)	1.50		Radius of dry bent	1.50		
	Porosity of Sand	0.3		Porosity of bentonite	0.3		
	Casing Volume of Sandpack (liters per foot)	0.21		Casing Volume of dry bentonite (liters per ft)	0.42		

**Monitor Well Data Sheet**

Site Name: <u>Annex Bldg</u>	Well/Sample ID: <u>MW-1</u>
Location: <u>2012 Jordan Ave</u>	Initial Depth to Water (DTW): <u>7.99</u>
Client: <u>RTC</u>	Total Well Depth (TD): <u>14.15</u>
Sampler: <u>WB</u>	Well Diameter: <u>0.75</u>
Date: <u>10-2-16</u>	Purge Method: <u>Low flow</u>
Case Volume: <u>—</u>	Sample Method: <u>Low flow</u>

Time	ph	SC	DO	Temp (C)	ORP	DTW (feet)	Cumulative Volume	Observations
1744	5.74	720	1.40	11.16	-7.2	—	0.5L	
1747	5.64	758	0.47	11.02	-29.8	—	1.0L	
1750	5.64	766	0.35	11.00	-38.3	—	1.5L	
1753	5.66	768	0.33	11.00	-43.4	—	2.0L	
1756	5.65	768	0.36	11.00	-44.8	—	2.5L	

Did Well Dewater?	<u>N</u>	Start Purge Time:	<u>1741</u>	DTW prior to sample:	<u>8.01</u>
Odor?	<u>No</u>	Stop Purge Time:	<u>1756</u>	Start Sample Time:	<u>1756</u>
Color	<u>grey-clear</u>	Case volumes removed:	<u>N/A</u>	Total Sample Volume:	<u>120ml</u>

Notes: pH may be wrong

**Monitor Well Data Sheet**

Site Name: <u>Annex Bldg</u>	Well/Sample ID: <u>MW-2</u>
Location: <u>2092 Jordan</u>	Initial Depth to Water (DTW): <u>7.62</u>
Client: <u>RTC</u>	Total Well Depth (TD): <u>17.30</u>
Sampler: <u>WB</u>	Well Diameter: <u>0.75"</u>
Date: <u>10-2-16</u>	Purge Method: <u>Low-Slow</u>
<del>Case Volume:</del>	Sample Method: <u>11</u>

Time	ph	SC	DO	Temp (C)	ORP	DTW (feet)	Cumulative Volume	Observations
1701	5.58	282	0.98	11.62	60.8	—	0.5L	
1704	5.60	292	0.75	11.55	48.2	—	1.0L	
1707	5.62	296	0.55	11.50	37.1	—	1.5L	
1710	5.63	297	0.49	11.49	32.1	—	2.0L	
1713	5.64	299	0.44	11.47	25.0	—	2.5L	

Did Well Dewater?	<u>N</u>	Start Purge Time:	<u>1658</u>	DTW prior to sample:	<u>8.01</u>
Odor?	<u>No</u>	Stop Purge Time:	<u>1713</u>	Start Sample Time:	<u>1713</u>
Color	<u>Clear</u>	Case volumes removed:	<u>N/A</u>	Total Sample Volume:	<u>120.1L</u>

Notes: pH may be wrong

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**Monitor Well Data Sheet**

Site Name: Annex Bldg	Well/Sample ID: MW-3
Location: 2092 Jordan Ave	Initial Depth to Water (DTW): 7.33
Client: RTC	Total Well Depth (TD): 17.30
Sampler: VB	Well Diameter: 0.75
Date: 10-2-16	Purge Method: Per: w/ ded tube low flow
<del>Case Volume:</del>	Sample Method: Per: w/ ded tube low flow

Time	ph	SC	DO	Temp (C)	ORP	DTW (feet)	Cumulative Volume	Observations
1629	5.20	330	1.30	10.71	175.7	—	0.5L	
1632	5.34	313	0.93	10.67	169.2	—	1.0L	
1635	5.41	307	0.76	10.62	163.4	—	1.5L	
1638	5.44	305	0.69	10.59	160.4	—	2.0L	
1641	5.48	302	0.59	10.56	157.4	—	2.5L	
1644	5.50	302	0.66	10.55	155.9	—	3.0L	

Did Well Dewater?	N	Start Purge Time:	1626	DTW prior to sample:	8.17
Odor?	No	Stop Purge Time:	1644	Start Sample Time:	1644
Color	Grey - Clear	Case volumes removed:	NA	Total Sample Volume:	120 mL

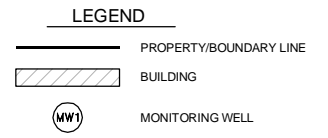
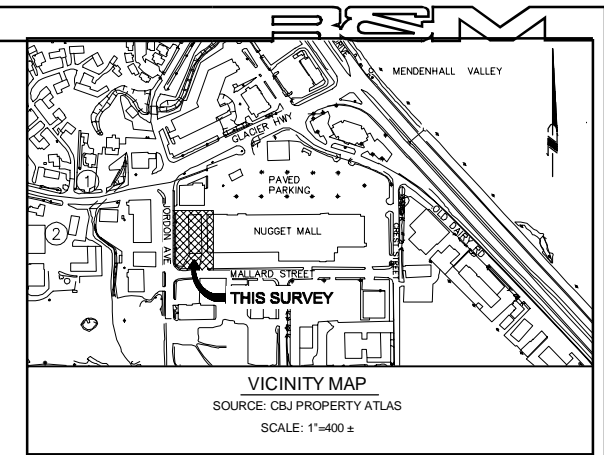
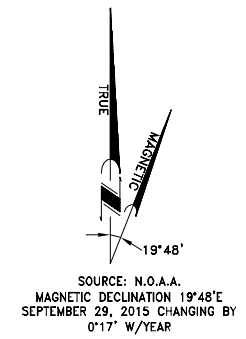
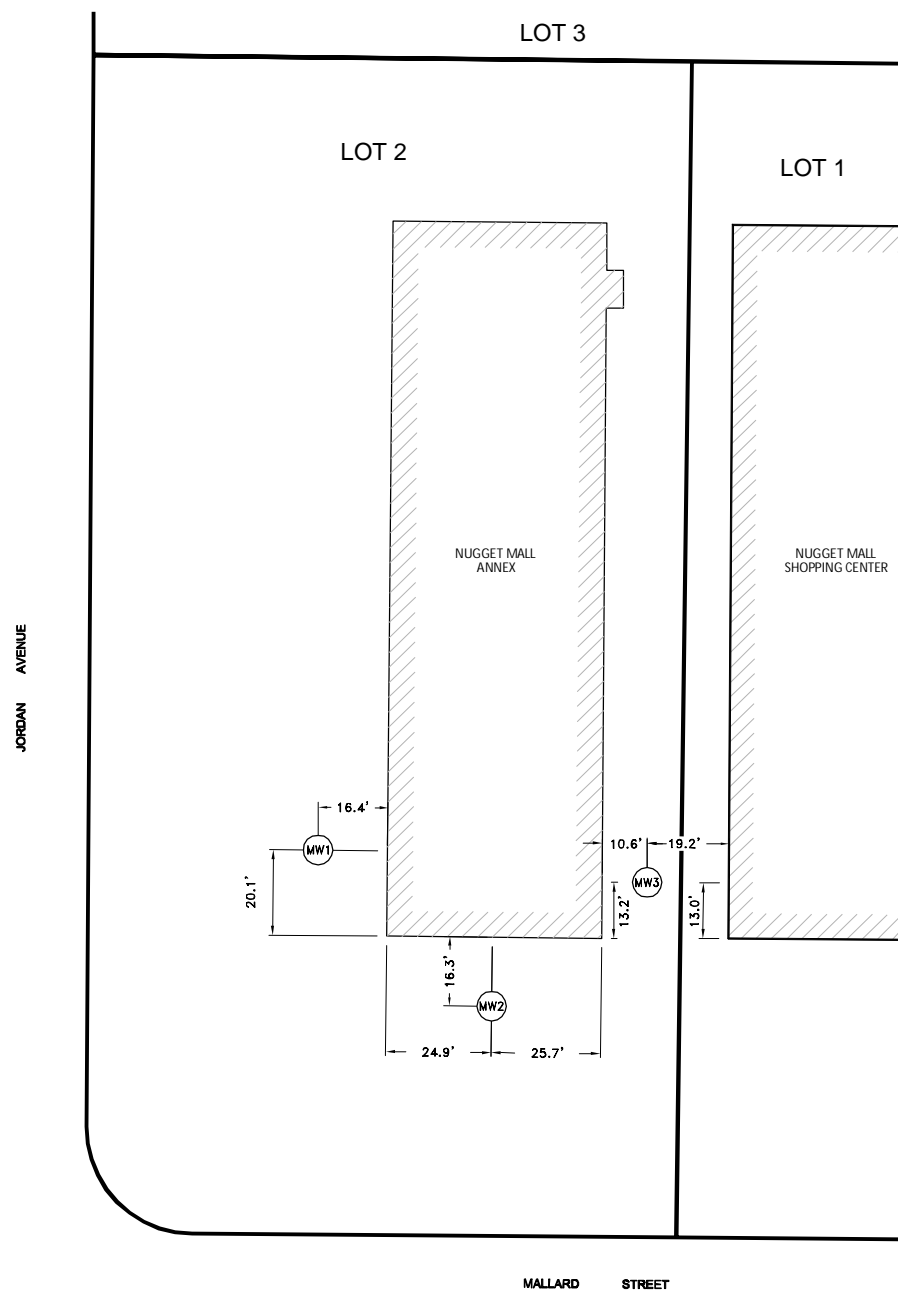
Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 Ph may be wrong  
 \_\_\_\_\_

## APPENDIX E

**GENERAL NOTES**

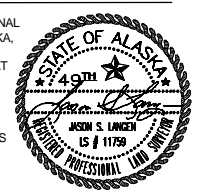
1. SURVEY LOCATION BASED ON NAD83 STATE PLANE COORDINATE SYSTEM, ZONE 1.
2. FIELD WORK WAS PERFORMED ON OCTOBER 7, 2016.
3. THIS SURVEY WAS PERFORMED UTILIZING REAL TIME KINETIC GEOGRAPHICAL POSITIONING SYSTEMS (RTK GPS) AND ON-THE-GROUND CONVENTIONAL TOTAL STATION MEASUREMENTS WITH STANDARD LASER DISTANCE MEASURING TECHNIQUES. THE SURVEY EQUIPMENT UTILIZED DURING THIS SURVEY WAS TRIMBLE R8-2 GNSS RECEIVERS, A TRIMBLE S-7 ROBOTIC TOTAL STATION, AND A LIECA B2-1 DIFFERENTIAL LEVEL.
4. ALL DATA WAS ADJUSTED TO OPUS POST-PROCESS STATIC VALUES.
5. NAVD 88 ELEVATIONS ARE BASED ON ADJUSTED GPS RTK OBSERVATIONS.
6. THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION, AS PER AS 40.15.

MONITORING WELL LOCATION SUMMARY				
ID	VERTICAL DATUM		GEODEIC NAD83	
	NAVD 88	MLLW	LATITUDE	LONGITUDE
MW1	25.99'	29.30'	N058°21'43.5560"	W134°34'44.9146"
MW2	25.97'	29.35'	N058°21'43.1991"	W134°34'44.1386"
MW3	26.83'	29.85'	N058°21'43.4907"	W134°34'43.4600"

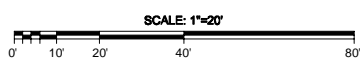


**SURVEYOR'S CERTIFICATE**

I, JASON S. LANGEN, IN MY CAPACITY AS A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF ALASKA, CERTIFY THAT THIS PLAT REPRESENTS THE SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE ACCURACY OF THE SURVEY IS WITHIN THE LIMITS REQUIRED BY TITLE 49 OF THE CODE OF THE CITY AND BOROUGH OF JUNEAU, THAT ALL DIMENSIONAL AND RELATIVE BEARINGS ARE CORRECT, AND THAT MONUMENTS ARE SET IN PLACE AND NOTED UPON THIS PLAT AS PRESENTED.



DATE: October 13, 2016



AN EXHIBIT OF <b>NUGGET MALL ANNEX MONITORING WELLS</b> JUNEAU, ALASKA	
OWNER: ENVIRONMENTAL RESOURCE GROUP 1038 REDWOOD HWY., STE. 1 MILL VALLEY, CA 94941	SURVEYOR: R&M ENGINEERING / PDC INC. ENGINEERS 6205 GLACIER HIGHWAY JUNEAU, ALASKA 99901 (907) 780-8880
DATE: October 13, 2016	R&M PROJ. No. 16371JN
SCALE: 1"=20'	SHEET <b>1</b> OF <b>1</b>
<b>R&amp;M ENGINEERS &amp; M ENGINEERS</b> ENGINEERS GEOLOGISTS SURVEYORS	

P:\2016\16371JN-ERG\_MIGT\_MALL\_DRILL\_Sheets\16371JN\_Nugget\_Mall\_Monitoring\_Wells\_10-13-2016.dwg PLOT: October 13, 2016 dt: 11:05am JacobGrews

## APPENDIX F

# Laboratory Data Review Checklist

Completed by:	Yola Bayram		
Title:	Geologist	Date:	Nov 16, 2016
CS Report Name:	Remedial Investigation and SVE System Installation Report	Report Date:	Nov 16, 2016
Consultant Firm:	ERG		
Laboratory Name:	Sunstar Laboratories Inc	Laboratory Report Number:	T162514f
ADEC File Number:	9241-14004160	ADEC RecKey Number:	

## 1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes     No     NA (Please explain.)    Comments:

Sunstar Laboratories is a California certified laboratory

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes     No     NA (Please explain)    Comments:

not subcontracted

## 2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes     No     NA (Please explain)    Comments:

b. Correct analyses requested?

Yes     No     NA (Please explain)    Comments:

## 3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ}$  C)?

Yes     No     NA (Please explain)    Comments:

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes       No       NA (Please explain)      Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes       No       NA (Please explain)      Comments:

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes       No       NA (Please explain)      Comments:

some samples weren't listed on COC. all samples were analyzed properly

e. Data quality or usability affected? (Please explain)

Comments:

All data is usable

#### 4. Case Narrative

a. Present and understandable?

Yes       No       NA (Please explain)      Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes       No       NA (Please explain)      Comments:

c. Were all corrective actions documented?

Yes       No       NA (Please explain)      Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

No effect.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes     No     NA (Please explain)

Comments:

b. All applicable holding times met?

Yes     No     NA (Please explain)

Comments:

c. All soils reported on a dry weight basis?

Yes     No     NA (Please explain)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes     No     NA (Please explain)

Comments:

PQL's for vinyl chloride are above cleanup level for migration to groundwater

e. Data quality or usability affected? (Please explain)

Comments:

Data still usable. PQLs are below target level for human health

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes     No     NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes     No     NA (Please explain)

Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain)    Comments:

v. Data quality or usability affected? (Please explain)    Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes     No     NA (Please explain)    Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes     No     NA (Please explain)    Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes     No     NA (Please explain)    Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes     No     NA (Please explain)    Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?    Comments:

None because recovery was acceptable for the samples



vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain)    Comments:

vii. Data quality or usability affected? (Please explain)    Comments:

Data is usable and of high quality

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes     No     NA (Please explain)    Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes     No     NA (Please explain)    Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain)    Comments:

iv. Data quality or usability affected? (Use the comment box to explain.).

Comments:

Not affected

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes     No     NA (Please explain.)    Comments:

Trip blank wasn't used due to lack of containers

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes     No     NA (Please explain.)    Comments:

iii. All results less than PQL?

Yes     No     NA (Please explain.)

Comments:

iv. If above PQL, what samples are affected?

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes     No     NA (Please explain)

Comments:

ii. Submitted blind to lab?

Yes     No     NA (Please explain.)

Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs?  
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \frac{\text{Absolute Value of: } (R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration

$R_2$  = Field Duplicate Concentration

Yes     No     NA (Please explain)

Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes     No     NA (Please explain)

Comments:

not affect. RPD is acceptable

f. Decontamination or Equipment Blank (if applicable)

Yes     No     NA (Please explain)

Comments:

i. All results less than PQL?

Yes     No     NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes     No     NA (Please explain)

Comments:

Reset Form

## Laboratory Data Review Checklist for Air Samples

Completed by:	Yola Bayram		
Title:	Geologist	Date:	Nov 15, 2016
CS Report Name:	Remedial Investigation and SVE System Install Report	Report Date:	Nov 15, 2016
Consultant Firm:	Environmental Resource Group		
Laboratory Name:	Sunstar Laboratories Inc.	Laboratory Report Number:	T162512,-15, -27
ADEC File Number:	9241-14004160	ADEC Haz ID:	

### 1. Laboratory

a. Did a NELAP certified laboratory receive and perform all of the submitted sample analyses?

Yes       No       NA (Please explain.)      Comments:

Sunstar is certified by the California Environmental Laboratory Accreditation Program (ELAP)

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses NELAP approved?

Yes       No       NA (Please explain.)      Comments:

Samples were not subcontracted

### 2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes       No       NA (Please explain.)      Comments:

b. Correct analyses requested?

Yes       No       NA (Please explain.)      Comments:

### 3. Laboratory Sample Receipt Documentation

a. Sample condition documented -Samples collected in gas tight, opaque/dark Summa canisters or other ADEC approved container? Canister vacuum/pressure checked, recorded upon receipt and contained no open valves?

Yes       No       NA (Please explain.)      Comments:

b. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum etc.?

Yes     No     NA (Please explain)    Comments:

No discrepancies

c. Data quality or usability affected? (Please explain.)

Yes     No     NA (Please explain)    Comments:

No discrepancies

#### 4. Case Narrative

a. Present and understandable?

Yes     No     NA (Please explain)    Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes     No     NA (Please explain)    Comments:

No discrepancies

c. Were all corrective actions documented?

Yes     No     NA (Please explain)    Comments:

No discrepancies

d. What is the effect on data quality/usability according to the case narrative?

Comments:

N/A

#### 5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes     No     NA (Please explain)    Comments:

TO-15 was not performed due to high concentration of analyte(s). TO-14 used as alternate

b. Samples analyzed within 30 days of collection or within the time required by the method?

Yes     No     NA (Please explain)    Comments:

c. Are the reported PQLs less than the Target Screening Level or the minimum required detection level for the project?

Yes     No     NA (Please explain)    Comments:

Four results for TCE are above target levels.

d. Data quality or usability affected?

Comments:

SS1, SS4, SS6, SS6-DUP PQLs are above target levels for TCE

6. QC Samples

a. Method Blank

i. One method blank reported per analysis and 20 samples?

Yes     No     NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes     No     NA (Please explain)

Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

Yes     No     NA (Please explain)

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. One LCS/LCSD or one LCS and a sample/sample duplicate pair reported per analysis and 20 samples?

Yes     No     NA (Please explain)

Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable.

Yes     No     NA (Please explain)

Comments:

iii. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable.

Yes     No     NA (Please explain)

Comments:

iv. If %R or RPD is outside of acceptable limits, what samples are affected?

Yes     No     NA (Please explain)    Comments:

NA

v. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain)    Comments:

NA

vi. Data quality or usability affected? (Please explain.)

Comments:

Not affected.

c. Surrogates

i. Are surrogate recoveries reported for field, QC and laboratory samples?

Yes     No     NA (Please explain)    Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable.

Yes     No     NA (Please explain)    Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain)    Comments:

iv. Data quality or usability affected? (Please explain.)

Comments:

Not affected

d. Field Duplicate

i. One field duplicate submitted per analysis and 10 type (soil gas, indoor air etc.) samples?

Yes     No     NA (Please explain)    Comments:

ii. Submitted blind to lab?

Yes     No     NA (Please explain)    Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 25 %)

$$\text{RPD (\%)} = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration

$R_2$  = Field Duplicate Concentration

Yes     No     NA (Please explain)

Comments:

One field duplicate had RPD of 59.34%

iv. Data quality or usability affected? (Please explain.)

Comments:

Data still usable

e. Field Blank (If not used explain why).

Yes     No     NA (Please explain)

Comments:

Lab did not provide nitrogen

i. All results less than PQL?

Yes     No     NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

## 7. Other Data Flags/Qualifiers

a. Defined and appropriate?

Yes     No     NA (Please explain)

Comments:

see 5a, J flags for some samples

Reset Form



## APPENDIX G



Split spoon sampler with core from C4. Transition to silt beginning at 4.75 feet bgs.



Core from C6 at 5 feet bgs with high amounts of organics in silt.



Subslab Vapor Pin Installation (SS5)



Indoor air sampling in Suite 595 with duplicate. Location is where former dry-cleaning machine was





Location of Diesel UST



Staining from pipe from AST into asphalt



Marking for SVE trench



Sleeved piping used for SVE collection



SVE well (SVE-595-1) in Suite 595





Trench with SVE piping



Termination of SVE trench collection piping



Backfilling of SVE trench and SVE treatment container





SVE system: Three collection pipes entering manifold to blower



SVE system: Blower with granulated activated carbon containers