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PHASE II ENVIRONMENTAL SITE ASSESSMENT

Sunset Property – 1911 to 1931 Sunset Boulevard

Los Angeles, California

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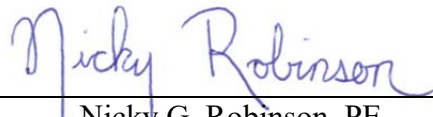
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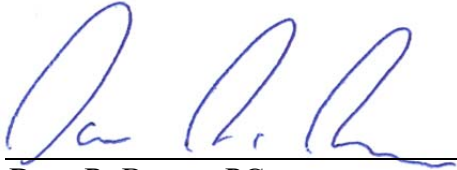
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CERTIFICATION

All geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Northgate California Professional Geologist.



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1.0 INTRODUCTION

This report presents the results of a Phase II Environmental Site Assessment (ESA) performed by Northgate Environmental Management, Inc. (Northgate) for Wactor & Wick LLP (Wactor & Wick) on behalf of its client Holland Partner Group, at Sunset Property located at 1911 to 1931 Sunset Boulevard in Los Angeles, California (the Site). The Site consists of approximately 0.95 acres of land located north of Sunset Boulevard and south of Reservoir Street. The Site is occupied by two single-story structures occupied by a restaurant and a medical clinic with surface parking. The Site is identified as Assessor's Parcel Numbers (APNs) 5404-001-007, -008, and -034 in Los Angeles County. A Site Vicinity Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

1.1 Objectives

The primary objective of the Phase II ESA was to assess the potential presence of soil and soil vapor quality impacts related to issues of environmental concern identified in a Phase I ESA prepared for the Site by EFI Global dated November 7, 2018 (EFI, 2018), and to provide a set of analytical data for soil characterization purposes.

1.2 Scope of Services

The scope of work included the following:

- Site walk to mark the proposed boring locations, and notification to DigAlert for underground utility clearance;
- Preparing a Health and Safety Plan (HASP);
- Advancing six borings to depths of 15 to 28 feet below ground surface (bgs) for the collection of soil and soil vapor samples at the Site;
- Analyzing 27 selected soil samples for total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as carbon chain (TPH-cc), volatile organic compounds (VOCs) and Title 22 metals, 24 soil samples for semi-volatile organic compounds (SVOCs), 18 soil samples for polychlorinated biphenyls (PCBs) and organochlorine pesticides (OCPs), and six soil samples for asbestos;
- Installing three temporary soil vapor sample probes at depths of 5 or 10 feet bgs for the collection and analysis of soil vapor samples for VOCs; and
- Preparing this report.



2.0 BACKGROUND

2.1 Site Description

The Site consists of approximately 0.95-acres of land located at 1911 to 1931 Sunset Boulevard in the City of Los Angeles, California. The Site consists of three parcels identified as APNs 5404-001-007, -008, and -034 in Los Angeles County. The Site is currently developed with two single-story structures occupied by a restaurant and a medical clinic with surface parking. A Site Vicinity Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

2.2 Site History

Northgate has reviewed a Phase I ESA for the Site prepared by EFI Global, dated November 7, 2018. The results of the investigation indicated that the Site was originally developed with residential structures on the northern portion of the Site and both residential and commercial structures on the southern portion of the Site. The southern portion of the Site was previously occupied by a laundry facility from at least 1939 to 1942. This structure was then utilized as a liquor store and subsequently demolished in 1968. The surrounding area is used for commercial and residential purposes.

2.3 Regional and Local Geology and Groundwater

The Site is located in the Transverse Ranges Geomorphic Province of Los Angeles County, and includes the Santa Monica Mountains. The Elysian Hills are located to the north and northwest of the Site. Subsurface soils in the Site vicinity have been reported to predominantly include silts and clays with some layers of sandy silt and sandy clay. The area is underlain by bedrock from the Puente Formation at depths of approximately 34 to 42 feet bgs. Groundwater in the Site vicinity has been encountered at depths of approximately 10 to 15 feet bgs. Groundwater flow is reported towards the southeast towards Echo Park Lake (TRC, 2017). Groundwater was not encountered during this investigation in borings advanced to 28 feet bgs.



3.0 INVESTIGATION METHODS

Northgate conducted soil, groundwater, and soil vapor sampling at the Site on December 17 and 18, 2017. Sampling locations are shown on Figure 3. Field investigation procedures are summarized in Appendix A.

3.1 Pre-Field Activities

Northgate conducted a walk-through of the Site to mark proposed sampling locations and secure access. Other pre-field activities included the specific tasks outlined below.

3.1.1 Health and Safety Plan

Northgate prepared a Site-specific HASP for the Phase II ESA. The HASP was prepared in accordance with Occupational Safety and Health Administration (OSHA) regulations as specified in Title 29 of the Federal Code of Regulations, Section 1910.120. The HASP addressed physical, chemical, and biological hazards associated with typical subsurface investigations of this nature, specified the appropriate means to mitigate or control these hazards, and delineated general safety procedures to be followed while conducting field investigations at the Site.

3.1.2 Clearance of Underground Utilities

Underground Service Alert (USA) was notified at least 48 hours prior to the start of drilling activities, as required by law in order to avoid potential damages to underground utilities in the vicinity of the boring locations. In addition, a geophysical survey was conducted to locate and mark underground utilities and evaluate for potential presence of underground storage tanks (USTs) in the sidewalk as well as product piping, other metal objects, and buried structures associated with the Site to further reduce potential risk of damaging underground utilities by drilling. The geophysical survey (attached as Appendix B) showed that the boring locations and sidewalks were “clear” of any subgrade features and that no anomalies such as tanks, piping, other metal objects and buried structures were noted on the Site or sidewalks that bordered the Site.

3.2 Soil Sampling and Analysis

Six borings (B1 through B6) were advanced across the Site using a GeoProbe® Rig operated by Strongarm Environmental Field Services, Inc. with supervision from Northgate. The total drilled depths ranged from 15 to 28 feet bgs. Refusal was encountered at borings B1, B5, and B6 at



depths of 28, 17, and 15 feet bgs, respectively. Groundwater was not encountered in any of the borings. Boring locations are shown in Figure 3.

Soil samples were collected at 1, 5, 10, and 15 feet bgs in all borings. In addition, samples were collected at 17 feet bgs in boring B5 and at 20 and 25 feet bgs in boring B1. During sampling, continuous cores of subsurface materials were collected in clear acetate liners. Upon removing the sampler from the borehole, the acetate liner containing the soil core was opened at various intervals, and soils were visually inspected and screened with a PID for the possible presence of contamination. Borings were logged in the field in accordance with the Unified Soil Classification System (USCS). Copies of the boring logs are provided in Appendix C.

Sample intervals selected for non-volatile chemical analysis were cut from the liners, sealed with Teflon tape and plastic caps. Samples collected for TPH-g/cc and VOC analysis were collected in accordance with Environmental Protection Agency (EPA) Method 5035 protocols using Encore® (or equivalent) samplers. Samples collected for TPH-g/cc and VOC analysis were collected using a LockⁿLoad™ sampler and preserved in ethanol and sodium bisulfate in volatile organic analysis (VOA) vials in accordance with EPA Method 5035. After collection, all samples were labeled, packaged, and placed on ice in a cooler maintained at 4° Celsius as temporary storage prior to delivery to the laboratory under proper chain-of-custody protocol.

After the sampling was completed, the borings without soil vapor probes (SVPs) were backfilled with neat cement grout to just below the surface and a concrete plug was placed at the surface to match existing conditions. Soil sampling methodology is further described in Appendix A.

Soil samples were submitted to SunStar Laboratories, Inc. (SunStar), a State of California certified laboratory located in Lake Forest, California, for analytical services. Soil samples were analyzed for TPH-g/cc using EPA Method 8015M, VOCs using EPA Method 8260B, Title 22 metals using EPA Method 6010B/7470/7471, SVOCs using EPA Method 8270C, PCBs using EPA Method 8082, and OCPs using EPA Method 8081A. The one-foot sample from each boring was also analyzed for asbestos using polarized light microscopy (PLM).

3.3 Groundwater Sampling

No groundwater samples were collected as groundwater was not encountered in maximum drilled depth of 28 feet bgs.

3.4 Soil Vapor Survey

Three temporary SVPs were installed in three of the eight borings across the Site. SVP1 through SVP3 were installed in borings B1 through B3, respectively. The SVPs were set to a depth of



5 feet bgs except for SVP2 which was set to 10 feet bgs. The SVPs were installed using 2-1/4 inch inside-diameter hollow drill rods. The probe consisted of a 3/8" x 9" Stone PolyPro vapor probe implant with 1/4-inch Speed Fit. Nylaflow tubing (3/16 inch diameter) attached to the implant was lowered to target installation depth and terminated a few feet above the ground surface for connection to sampling equipment. The borehole annulus around the implant and tubing was filled through the drill rods with sand 6 inches below and above the implant, followed by 6 inches of dry bentonite, and then hydrated bentonite chips to the ground surface.

The SVP locations are described below:

- SVP1 was installed at a depths of 5 feet bgs in boring B1 at the location of the former laundry facility in the southern portion of the Site;
- SVP2 was installed at a depth of 10 feet bgs in boring B2 at the location of the former laundry facility in the southern portion of the Site; and
- SVP3 was installed at a depth of 5 feet bgs in boring B3 in the southern portion of the property close to Reservoir Street.

After installation, each SVP was allowed to stabilize for a minimum of two hours prior to obtaining soil vapor samples from temporary probe in accordance with California Department of Toxic Substances Control (DTSC) guidance. After performing a shut-in test of tubing connections at the surface, each probe was purged of approximately three well-volumes of air using an SKC 210 “pocket pump” air sample pump with flow rate set at 200 milliliters per minute (ml/min). A vapor sample was then collected from each probe using a 1-Liter summa canister and flow regulator that maintained a flow rate of 150 ml/min. During sample collection, a rag soaked with isopropyl alcohol was exposed to air near the SVP location for leak check and verification of the integrity of SVPs. Samples were submitted to SunStar for analysis of VOCs using EPA Method TO-15.

Following completion of soil vapor sampling, the borings were abandoned by removing the vapor tubing, and backfilling with neat cement grout to just below the surface and placing a concrete plug to match existing surface conditions. Soil vapor sampling methodology is further described in Appendix A.

3.5 Data Evaluation Criteria

Chemical test results from soil samples collected during this investigation were evaluated using the Regional Screening Levels (RSLs) established by the United States Environmental Protection Agency (EPA) Region 9 and the modified Screening Levels (SLs) established by the Department of Toxic Substances Control (DTSC). The EPA RSLs and DTSC SLs are health-based exposure



concentrations to chemicals of concern in both residential and commercial land use. The RSLs and SLs are not regulatory action levels or cleanup standards.

Soil samples analyzed for TPH were also evaluated using the Los Angeles County Regional Water Quality Control Board (LARWQCB) TPH Maximum Soil Screening Level (SSL). LARWQCB screening levels are used to evaluate the potential threat to groundwater and were calculated based on the LARWQCB Interim Site Assessment and Cleanup Guidebook procedures by applying attenuation factors, calculated based upon both distance above groundwater and the soil type(s), to establish California Maximum Contaminant Levels (MCLs), the State primary drinking water standard established under Title 22 of the California Code of Regulations. The LARWQCB SSLs were calculated for varying soil sample depths based on their varying distance above groundwater. The LARWQCB utilizes the SSLs as guidance to close investigations of petroleum and VOC impacted sites (LARWQCB, 1996).

The presence of a chemical at a concentration above these standards does not necessarily indicate that adverse impacts to human health or the environment are present, but rather, indicate that a potential for adverse risk may exist and that additional evaluation may be warranted. However, in general practice, the absence of chemical constituents above these screening levels generally indicates that the Site is suitable for its intended use.

Soil vapor sample test results are compared to EPA RSLs and DTSC SLs for residential and commercial land use. The RSLs and SLs have been developed for indoor air concentrations; therefore, RSLs and SLs for soil vapor were calculated using an attenuation factor. A non-Site specific, conservative attenuation factor of 0.002 was applied to the RSLs and SLs for residential indoor air, and a conservative attenuation factor of 0.001 was applied to the RSLs and SLs for commercial indoor air to develop calculated SLs for soil vapor. The attenuation factors were derived from the DTSC *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (DTSC, 2001). It should be noted that the attenuation factors utilized for residential and commercial land use are typically for soil vapor at shallow depths of approximately 5 feet bgs; therefore, the calculated screening criteria are considered conservative for deeper soil vapor sample depths. It should also be noted that the current attenuation factors are scheduled to be revised in late 2019 and the new attenuation factors are expected to be lower, resulting in lower screening levels.



4.0 INVESTIGATION RESULTS

4.1 Subsurface Conditions

Drilling locations across the Site were covered with approximately three inches of asphalt. Subsurface soils encountered during drilling generally consisted of silt and clay with trace amounts of fine sand locally to maximum explored depth of 28 feet bgs. Groundwater was not encountered during drilling to maximum explored depth of 28 feet bgs. Boring locations are shown on Figure 3 and boring logs are provided in Appendix C.

4.2 Analytical Results

Laboratory analytical results for soil samples analyzed during this investigation are presented in Table 1 (TPH), Table 2 (VOCs, SVOCs, PCBs, OCPs, and asbestos), Table 3 (Title 22 metals), and Table 4 (STLC and TCLP). Laboratory analytical results for soil vapor samples are summarized in Table 5. Copies of the laboratory analytical reports are provided in Appendix D. Analytical results are discussed in the following sections.

4.2.1 Soil Analytical Results

As shown in Table 1, total petroleum hydrocarbons as gasoline (TPH-g) and total petroleum hydrocarbons as diesel (TPH-d) were not detected in the 27 samples analyzed. Total petroleum hydrocarbons as motor oil (TPH-mo) were reported in nine shallow samples from each boring across the Site (at depths ranging from 1 to 20 feet bgs) at concentrations ranging from 27 to 880 milligrams per kilogram (mg/kg), which are all below the RWQCB TPH maximum SSL, the EPA RSLs, and DTSC SLs for residential and commercial land use.

As shown in Table 2, several gasoline-related VOCs were reported in soil samples collected from borings B1, B3, B4, and B5 at depths up to 15 feet bgs. Detected VOCs included benzene, ethylbenzene, 1,2,4-trimethylbenzene, and xylenes. Detected VOC concentrations are below their respective RWQCB TPH Maximum SSLs, EPA RSLs, and DTSC SLs for residential or commercial land use.

Chlorinated VOCs, SVOCs, OCPs, and PCBs were not detected above laboratory reporting limits in any of the soil samples. Asbestos were also not detected in the one-foot samples analyzed from each location.

Low concentrations of several metals including arsenic, barium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, vanadium, and zinc were reported in all samples. Arsenic concentrations exceeded both the EPA RSLs (0.39 and 1.6 mg/kg) and DTSC SLs (0.67 and 2.6



mg/kg) for residential and commercial land use, respectively. Arsenic was reported at concentrations ranging between 5.1 and 21 mg/kg in 17 of the 27 samples analyzed. The highest arsenic concentration (21 mg/kg) was detected at 15 feet bgs in boring B5, which is located on the central-western portion of the Site to the north of the medical office building. With the exception of the highest reported concentration of 21 mg/kg from boring B5, detected arsenic concentrations were below the upper limit of regional background arsenic concentration of 12 mg/kg for Southern California established by DTSC. Additionally, lead was reported in 24 of the 27 samples at concentrations ranging from 5.8 to 210 mg/kg. The highest lead concentration (210 mg/kg) was detected in the one-foot sample collected from boring B5, which was the only concentration reported above regulatory screening criteria including the EPA RSL and DTSC SL for residential land use of 80 mg/kg but was below the screening criteria for commercial land use of 320 mg/kg. Because this lead concentration also exceeded the 10 times the Soluble Threshold Limit Concentration (STLC) and 20 times Toxicity Characteristic Leaching Procedure (TCLP) value, the sample was additionally analyzed for STLC and Toxicity Characteristic Leaching Procedure TCLP in accordance with the State and Federal hazardous waste criteria. The STLC concentration of 12 milligrams per liter exceeded the waste disposal criteria of 5 mg/L but the TCLP result was not detected above the laboratory reporting limit; therefore, the soil from this sample will need to be characterized as non-RCRA California hazardous waste. The concentrations of all other detected metals were below their respective EPA RSLs and DTSC SLs for residential or commercial land use.

4.2.2 Soil Vapor Analytical Results

A number of VOCs were reported in two of the three soil vapor samples (SVP1 and SVP3) including ethylbenzene, tetrachloroethene, 1,1,2- trichloroethane, trichloroethene, m,p-xylenes, and o-xylenes. Soil vapor collected from SVP3 in boring B3 contained ethylbenzene (1,300 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), 1,1,2- trichloroethane (1,700 $\mu\text{g}/\text{m}^3$), m,p-xylenes (5,500 $\mu\text{g}/\text{m}^3$), and o-xylenes (1,700 $\mu\text{g}/\text{m}^3$). Ethylbenzene and 1,1,2-trichloroethane concentrations exceeded the calculated EPA RSL of 550 $\mu\text{g}/\text{m}^3$ for residential land use. 1,1,2-trichloroethane also exceeded the calculated EPA RSL of 770 $\mu\text{g}/\text{m}^3$ for commercial land use. None of the other reported VOCs exceeded their respective residential or commercial soil vapor RSLs or SLs.

The regulatory screening criteria for soil vapor are calculated by applying an attenuation factor to screening criteria for indoor air concentrations. It should be noted that the attenuation factors utilized for residential and commercial land use are typically for soil vapor at shallow depths of approximately 5 feet bgs; therefore, the calculated screening criteria are considered conservative for deeper soil vapor sample depths. As indicated in section 3.5, the attenuation factors are



currently under regulatory review and are expected to be revised downwards in late 2019, resulting in lower screening values.



5.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation included the analysis of 27 soil samples and three soil vapor samples from drilling of six borings and installation of three temporary soil vapor probes in areas of potential concern at the Site. No groundwater samples were collected as part of this investigation because groundwater was not encountered at the Site. Conclusions regarding subsurface conditions based on the chemical test results are presented below.

5.1 Soil

Although low concentrations of TPH-mo were reported in nine shallow soil samples, these concentrations were below regulatory screening criteria. Several gasoline-related VOCs, including benzene, ethylbenzene, 1,2,4-trimethylbenzene, and xylenes, were also reported at concentrations below regulatory screening criteria. Detected metals were below their respective screening criteria except for arsenic and lead. Arsenic concentrations are above both the EPA and DTSC screening levels for residential and commercial land use; however, the arsenic concentrations were below the upper limit background concentration, with the exception of the highest concentration that was measured at 15 feet bgs in B5. The lead concentration in the one-foot sample from boring B5 exceeds the EPA RSLs and DTSC SLs for residential land use and exceeds the STLC value (but is below its TCLP value), indicating that the lead impacted soil in the vicinity of boring B5 would need to be handled as non-RCRA California hazardous waste. Based on the results, elevated concentrations of lead appear to be limited to the shallow soil to no deeper than 5 feet bgs. The lateral extent of the lead impacted soil is not definitely known, but given that lead was not reported in borings advanced approximately 75 feet to the north, east, and southeast, the lead impacted soil is limited to the vicinity around boring B5.

5.2 Soil Vapor

Soil vapor samples were collected at 5 and 10 feet bgs based on the location of permeable soil layers encountered at each boring location. No VOCs were detected in the soil vapor probe SVP2 installed in boring B2, and only trace concentrations of TCE was detected in the SVP1 installed in boring B1. Several VOCs (mostly fuel related) were detected in SVP3 installed in boring B3. However, all VOCs in soil vapor were below screening levels with the exception of ethylbenzene that was measured above the residential but below the commercial EPA RSL and 1,1,2-TCA that was reported above the EPA RSL for commercial land use at boring B3. The VOC results indicate that there does not appear to be a soil vapor issue associated with historical laundry on the Site; however, the 1,1,2-TCA and ethylbenzene may potentially be related to the former automotive maintenance facility to the east of the Site or the current gas station to the west of the Site.



5.3 Recommendations

Given the presence of arsenic and lead in soil boring B5 exceeding regulatory screening criteria, Northgate recommends the following:

- Assessment of the lateral and vertical extent of lead in soil at boring B5 above hazardous waste criteria prior to excavation;
- Develop a soil management plan to address the management of the lead impacted soil, the potential segregation of “landfill cover” soil from “unrestricted use soil,” and management of any potentially impacted soil that might be encountered during excavation;
- Based on soil vapor data, plan on vapor mitigation or assess soil vapor beneath the restaurant building when it becomes accessible; and
- Properly remove and dispose any impacted soil encountered during development.



6.0 LIMITATIONS

The purpose of a geologic/hydrogeologic study is to reasonably characterize existing site conditions based on the geology/hydrogeology of the area. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all geologic/hydrogeologic conditions of interest at a given site. If conditions have not been identified during the study, such a finding should not therefore be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.



7.0 REFERENCES

- Department of Toxic Substances Control (DTSC), 2001. *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*, Department of Toxic Substances Control, California Environmental Protection Agency, October 2001.
- EFI Global (EFI), 20018. *Phase I Environmental Site Assessment Report, Taix French Restaurant, 1911 Sunset Boulevard and 1980 and 2007 West Reservoir Street, Los Angeles, California*. November 7.
- Los Angeles County Regional Water Quality Control Board (LARWQCB), 1996. *Interim Site Assessment & Cleanup Guidebook*. May.
- Northgate Environmental Management, Inc. (Northgate) 2018. *Proposal for Phase II Site Assessment, Sunset and Reservoir Property – 1911 Sunset Boulevard and 1980 and 2007 West Reservoir Street, Los Angeles, California*. December 13.
- TRC, 2017. *Work Plan for Additional Assessment and Remedial Testing, Hollywood Cleaners, 1157 Echo Park Avenue, Los Angeles, California, RWQCB Case #2048E00*. March 21.



TABLES



TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS -
TOTAL PETROLEUM HYDROCARBONS

			Total Petroleum Hydrocarbons EPA Method 8015B		
Sample Identification	Sample Top (Feet bgs)	Date Sampled	C13-C22 (TPH-d) Extractable	C23-C32 (TPH-mo) Extractable	C4-C12 (TPH-g) Purgeable
			mg/kg	mg/kg	µg/kg
B1-1	1	12/17/2018	<10	310	<510
B1-5	5	12/17/2018	<10	<10	<660
B1-10	10	12/17/2018	<10	<10	<480
B1-15	15	12/17/2018	<10	<10	<630
B1-20	20	12/17/2018	<10	27	<590
B1-25	25	12/17/2018	<10	<10	<500
B2-1	1	12/17/2018	<10	400	<510
B2-5	5	12/17/2018	<10	<10	<480
B2-10	10	12/17/2018	<10	<10	<510
B2-15	15	12/17/2018	<10	<10	<510
B3-1	1	12/17/2018	<10	220	<480
B3-5	5	12/17/2018	<10	<10	<510
B3-10	10	12/17/2018	<10	<10	<460
B3-15	15	12/17/2018	<10	<10	<520
B4-1	1	12/17/2018	<10	450	<520
B4-5	5	12/17/2018	<10	<10	<620
B4-10	10	12/17/2018	<10	110	<490
B4-15	15	12/17/2018	<10	<10	<540
B5-1	1	12/18/2018	<10	880	<500
B5-5	5	12/18/2018	<10	52	<590
B5-10	10	12/18/2018	<10	<10	<510
B5-15	15	12/18/2018	<10	<10	<460
B5-17	17	12/18/2018	<10	<10	<530
B6-1	1	12/18/2018	<10	<10	<480
B6-5	5	12/18/2018	<10	110	<530
B6-10	10	12/18/2018	<10	<10	<560
B6-15	15	12/18/2018	<10	<10	<500
REGULATORY SCREENING CRITERIA					
RWQCB TPH Maximum SSLs Between 20 and 150 Above Groundwater			1,000	10,000	500,000
EPA Residential Soil RSLs			110	2,500	82,000
EPA Commercial Soil RSLs			600	33,000	420,000
DTSC Residential Soil SLs (cancer endpoint)			NE	NE	NE
DTSC Commercial Soil SLs (cancer endpoint)			NE	NE	NE

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
Bold	Detected above one or more regulatory screening levels
bgs	Below ground surface
DTSC	Department of Toxic Substance Control
EPA	United States Environmental Protection Agency
mg/kg	Milligrams per kilogram (units)
µg/kg	Micrograms per kilogram (units)
NA	Not available
ND	Not detected
NE	Not established
RSL	EPA Region 9 Regional Screening Level, updated May 2016
RWQCB	Regional Water Quality Control Board - Los Angeles Region
SL	Screening levels, updated January 2016
SSL	RWQCB Maximum Soil Screening Levels - Distance to groundwater 20 to 150 feet, Interim Site Assessment Cleanup Guidance, May 1996.
TPH	Total petroleum hydrocarbons
TPH-d	Total petroleum hydrocarbons quantified as diesel
TPH-g	Total petroleum hydrocarbons quantified as gasoline
TPH-mo	Total petroleum hydrocarbons quantified as motor oil

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs, SVOCs, PCBs, OCPs, AND ASBESTOS

			Volatile Organic Compounds EPA Method 8260B						SVOCs EPA Method 8270C	PCBs EPA Method 8082	OCPs EPA Method 8081A	Asbestos PLM Identification
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Benzene	Ethylbenzene	1,2,4-Trimethylbenzene	m,p-Xylene	o-Xylene	Other VOCs	SVOCs	PCBs	OCPs	Asbestos
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg				
B1-1	1	12/17/2018	<5.3	<5.3	<5.3	<11	<5.3	ND	ND	<10	ND	ND
B1-5	5	12/17/2018	<6.2	<6.2	<6.2	<12	<6.2	ND	ND	<10	ND	--
B1-10	10	12/17/2018	<4.7	<4.7	<4.7	<9.4	<4.7	ND	ND	<10	ND	--
B1-15	15	12/17/2018	<4.7	6.7	<4.7	<9.4	<4.7	ND	ND	--	--	--
B1-20	20	12/17/2018	<6.3	<6.3	<6.3	<13	<6.3	ND	--	--	--	--
B1-25	25	12/17/2018	<5.8	6.7	<5.8	<12	<5.8	ND	--	--	--	--
B2-1	1	12/17/2018	<5.2	<5.2	<5.2	<10	<5.2	ND	ND	<10	ND	ND
B2-5	5	12/17/2018	<4.9	<4.9	<4.9	<9.7	<4.9	ND	ND	<10	ND	--
B2-10	10	12/17/2018	<5.6	<5.6	<5.6	<11	<5.6	ND	ND	<10	ND	--
B2-15	15	12/17/2018	<5.3	<5.3	<5.3	<11	<5.3	ND	ND	--	--	--
B3-1	1	12/17/2018	<4.9	22	<4.9	110	45	ND	ND	<10	ND	ND
B3-5	5	12/17/2018	<5.2	<5.2	<5.2	<10	<5.2	ND	ND	<10	ND	--
B3-10	10	12/17/2018	<6.4	<6.4	<6.4	<13	<6.4	ND	ND	<10	ND	--
B3-15	15	12/17/2018	<5.2	7.1	<5.2	<10	<5.2	ND	ND	--	--	--
B4-1	1	12/17/2018	<6.2	<6.2	<6.2	<12	<6.2	ND	ND	<10	ND	ND
B4-5	5	12/17/2018	<8.0	<8.0	<8.0	<16	<8.0	ND	ND	<10	ND	--
B4-10	10	12/17/2018	<5.5	5.7	6.2	<11	<5.5	ND	ND	<10	ND	--
B4-15	15	12/17/2018	<5.2	<5.2	<5.2	<10	<5.2	ND	ND	--	--	--
B5-1	1	12/18/2018	<7.6	<7.6	<7.6	<15	<7.6	ND	ND	<100	ND	ND
B5-5	5	12/18/2018	<5.9	5.9	<5.9	<12	<5.9	ND	ND	<10	ND	--
B5-10	10	12/18/2018	<4.6	<4.6	<4.6	<9.3	<4.6	ND	ND	<10	ND	--
B5-15	15	12/18/2018	<5.1	6.7	<5.1	<10	<5.1	ND	ND	--	--	--
B5-17	17	12/18/2018	<5.2	<5.2	<5.2	<10	<5.2	ND	--	--	--	--
B6-1	1	12/18/2018	<4.5	<4.5	<4.5	<9.1	<4.5	ND	ND	<10	ND	ND
B6-5	5	12/18/2018	<5.1	<5.1	<5.1	<10	<5.1	ND	ND	<10	ND	--
B6-10	10	12/18/2018	<5.3	<5.3	<5.3	<11	<5.3	ND	ND	<10	ND	--
B6-15	15	12/18/2018	<5.1	<5.1	<5.1	<10	<5.1	ND	ND	--	--	--
REGULATORY SCREENING CRITERIA												
RWQCB TPH Maximum SSL for Sample Top at 0.5 Feet bgs			10	7,079	NE	17,697	17,697	NA	NE	NE	NE	NE
RWQCB TPH Maximum SSL for Sample Top at 5 Feet bgs			9	6,181	NE	15,453	15,453	NA	NE	NE	NE	NE
RWQCB TPH Maximum SSL for Sample Top at 10 Feet bgs			7	5,184	NE	12,959	12,959	NA	NE	NE	NE	NE
RWQCB TPH Maximum SSL for Sample Top at 15 Feet bgs			6	4,018	NE	10,045	10,045	NA	NE	NE	NE	NE
RWQCB TPH Maximum SSL for Sample Top at 20 Feet bgs			4	2,863	NE	7,158	7,158	NA	NE	NE	NE	NE
RWQCB TPH Maximum SSL for Sample Top at 25 Feet bgs			3	2,170	NE	5,425	5,425	NA	NE	NE	NE	NE
RWQCB TPH Maximum SSL for Sample Top at 30 Feet bgs			3	2,170	NE	5,425	5,425	NA	NE	NE	NE	NE
EPA Residential Soil RSLs			1,200	5,800	58,000	550,000	650,000	NA	NA	NA	NA	NA
EPA Commercial Soil RSLs			5,100	25,000	240,000	2,400,000	2,800,000	NA	NA	NA	NA	NA
DTSC Residential Soil SLs (cancer endpoint)			330	NE	NE	NE	NE	NA	NA	NA	NA	NA
DTSC Commercial Soil SLs (cancer endpoint)			1,400	NE	NE	NE	NE	NA	NA	NA	NA	NA

Notes/Abbreviations:

- < Not detected at or above the indicated laboratory method reporting limit
- Not tested
- * Noncancer endpoint value used as cancer endpoint value was not established
- bgs Below ground surface
- DTSC Department of Toxic Substance Control
- EPA United States Environmental Protection Agency
- NA Not available
- ND Not detected
- NE Not established
- OCPs Organochlorine pesticides
- PCBs Polychlorinated biphenyls
- RSL EPA Region 9 Regional Screening Level, updated May 2016
- RWQCB Regional Water Quality Control Board - Los Angeles Region
- SL Screening levels, updated January 2016
- SSL RWQCB Maximum Soil Screening Levels - Distance to groundwater 20 to 150 feet, Interim Site Assessment Cleanup Guidance, May 1996.
- SVOCs Semi-volatile organic compounds
- µg/kg Micrograms per kilogram (units)
- VOCs Volatile organic compounds

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - TITLE 22 METALS

			Title 22 Metals EPA Method 6010B																	Mercury EPA 7471A
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B1-1	1	12/17/2018	<3.0	<5.0	110	<1.0	<2.0	13	7.7	15	26	<5.0	10	<5.0	<2.0	<2.0	36	75	0.14	
B1-5	5	12/17/2018	<3.0	5.1	160	<1.0	<2.0	19	8.3	30	6.2	8.5	21	<5.0	<2.0	<2.0	42	71	<0.10	
B1-10	10	12/17/2018	<3.0	5.3	220	<1.0	<2.0	16	18	35	7.5	14	44	<5.0	<2.0	<2.0	47	83	<0.10	
B1-15	15	12/17/2018	<3.0	5.8	240	<1.0	<2.0	18	11	29	5.8	12	31	<5.0	<2.0	<2.0	44	87	<0.10	
B1-20	20	12/17/2018	<3.0	5.6	75	<1.0	<2.0	18	13	31	5.8	8.4	26	<5.0	<2.0	<2.0	40	77	<0.10	
B1-25	25	12/17/2018	<3.0	<5.0	84	<1.0	<2.0	18	13	24	6.1	7.5	26	<5.0	<2.0	<2.0	38	64	<0.10	
B2-1	1	12/17/2018	<3.0	<5.0	150	<1.0	<2.0	16	9.4	30	11	5.1	21	<5.0	<2.0	<2.0	39	73	<0.10	
B2-5	5	12/17/2018	<3.0	<5.0	170	<1.0	<2.0	18	15	30	7.2	6.7	33	<5.0	<2.0	<2.0	43	72	<0.10	
B2-10	10	12/17/2018	<3.0	<5.0	91	<1.0	<2.0	19	14	28	6.9	5.5	24	<5.0	<2.0	<2.0	34	64	<0.10	
B2-15	15	12/17/2018	<3.0	<5.0	60	<1.0	<2.0	14	14	27	6.1	8.4	38	<5.0	<2.0	<2.0	33	57	<0.10	
B3-1	1	12/17/2018	<3.0	<5.0	150	<1.0	<2.0	14	12	27	10	5.4	32	<5.0	<2.0	<2.0	37	67	<0.10	
B3-5	5	12/17/2018	<3.0	<5.0	130	<1.0	<2.0	19	9.7	34	8.0	6.2	22	<5.0	<2.0	<2.0	40	73	<0.10	
B3-10	10	12/17/2018	<3.0	6.2	120	<1.0	<2.0	17	15	40	8.3	14	43	<5.0	<2.0	<2.0	45	84	<0.10	
B3-15	15	12/17/2018	<3.0	7.4	85	<1.0	<2.0	17	18	31	7.4	10	46	<5.0	<2.0	<2.0	43	83	<0.10	
B4-1	1	12/17/2018	<3.0	<5.0	320	<1.0	<2.0	14	13	30	11	8.4	29	<5.0	<2.0	<2.0	36	81	<0.10	
B4-5	5	12/17/2018	<3.0	<5.0	86	<1.0	<2.0	16	11	23	6.6	5.6	21	<5.0	<2.0	<2.0	35	63	<0.10	
B4-10	10	12/17/2018	<3.0	5.5	69	<1.0	<2.0	16	11	28	8.1	7.3	25	<5.0	<2.0	<2.0	36	71	<0.10	
B4-15	15	12/17/2018	<3.0	5.9	110	<1.0	<2.0	16	9.1	29	6.9	8.7	20	<5.0	<2.0	<2.0	40	74	<0.10	
B5-1	1	12/18/2018	<3.0	9.8	150	<1.0	<2.0	18	13	33	210	9.4	24	<5.0	<2.0	<2.0	40	81	<0.10	
B5-5	5	12/18/2018	<3.0	7.6	150	<1.0	<2.0	16	11	24	<3.0	9.3	20	<5.0	<2.0	<2.0	35	46	<0.10	
B5-10	10	12/18/2018	<3.0	8.2	56	<1.0	<2.0	16	11	29	<3.0	11	22	<5.0	<2.0	<2.0	37	60	<0.10	
B5-15	15	12/18/2018	<3.0	21	63	<1.0	<2.0	22	15	50	9.4	19	33	<5.0	<2.0	<2.0	58	97	<0.10	
B5-17	17	12/18/2018	<3.0	8.3	63	<1.0	<2.0	15	12	23	8.9	11	20	<5.0	<2.0	<2.0	31	60	<0.10	
B6-1	1	12/18/2018	<3.0	8.1	120	<1.0	<2.0	17	13	25	8.8	8.3	25	<5.0	<2.0	<2.0	43	48	<0.10	
B6-5	5	12/18/2018	<3.0	9.9	650	<1.0	<2.0	16	13	29	<3.0	11	24	<5.0	<2.0	<2.0	37	62	<0.10	
B6-10	10	12/18/2018	<3.0	9.0	110	<1.0	<2.0	18	12	35	9.5	12	22	<5.0	<2.0	<2.0	42	71	<0.10	
B6-15	15	12/18/2018	<3.0	8.2	71	<1.0	<2.0	16	15	30	11	11	19	<5.0	<2.0	<2.0	35	69	<0.10	
REGULATORY SCREENING CRITERIA																				
EPA Residential Soil RSLs			31	0.39	15,000	160	70	NE	23	3,100	80 ¹	390	1,500	390	390	0.78	390	23,000	10	
EPA Commercial Soil RSLs			410	1.6	190,000	2,000	800	NE	300	41,000	320 ¹	5,100	20,000	5,100	5,100	10	5,200	310,000	43	
DTSC Residential Soil SLs (cancer endpoint)			NE	0.67	NE	NE	2,100	NE	NE	NE	80*	NE	NE	NE	390*	NE	390*	NE	1.0*	
DTSC Commercial Soil SLs (cancer endpoint)			NE	2.5	NE	NE	9,300	NE	NE	NE	320*	NE	NE	NE	1,500*	NE	1,000*	NE	4.5*	

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit	ND	Not detected
--	Not tested	NE	Not established
¹	California Human Health Screening Level (CHHSL) used for lead	RSL	EPA Region 9 Regional Screening Level, updated May 2016
bgs	Below ground surface	RWQCB	Regional Water Quality Control Board - Los Angeles Region
DTSC	Department of Toxic Substance Control	SL	Screening levels, updated January 2016
EPA	United States Environmental Protection Agency	SSL	RWQCB Maximum Soil Screening Levels - Distance to groundwater 20 to 150 feet, Interim Site Assessment Cleanup Guidance, M:
mg/kg	Milligrams per kilogram (units)	µg/kg	Micrograms per kilogram (units)
NA	Not available		

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS - STLC and TCLP

			Title 22 Metals EPA Method 6010B	STLC Metals EPA Method 6000/7000 Series	TCLP Metals EPA Method 6000/7000 Series
			mg/kg	mg/L	mg/L
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Lead	Lead	Lead
B5-1	1	12/18/2018	210	12	<0.10
			Waste Disposal Criteria		
			TTLC	STLC	TCLP
			1,000	5	5

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
mg/kg	Milligrams per kilogram (units)
mg/L	Milligrams per liter (units)
bgs	Below ground surface
EPA	United States Environmental Protection Agency
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TTLC	Total Threshold Limit Concentration

TABLE 5
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

			Volatile Organic Compounds EPA Method TO-15																
Sample Identification	Sample Depth (Feet bgs)	Date Sampled	Acetone	Benzene	Carbon disulfide	Cyclohexane	Dichlorodifluoromethane	Ethylbenzene	Heptane	Hexane	Methyl ethyl ketone	Tetrachloroethene	Toluene	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	m,p-Xylene	o-Xylene	Other VOCs
			µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
B1 (SVP1)	5	12/18/2018	<12	<3.3	<3.2	<3.5	<5.0	<4.4	<4.2	<3.6	<15	8.1	<3.8	<5.6	6.7	<5.0	<8.8	<4.4	ND
B2 (SVP2)	10	12/18/2018	<12	<3.3	<3.2	<3.5	<5.0	<4.4	<4.2	<3.6	<15	<6.9	<3.8	<5.6	<5.5	<5.0	<8.8	<4.4	ND
B3 (SVP3)	5	12/18/2018	<120	<160	<160	<170	<250	1,300	<210	<180	<150	<350	<190	1,700	<270	<250	5,500	1,700	ND
REGULATORY SCREENING CRITERIA																			
Residential Indoor Air RSLs ¹			32,000	0.36	730	6,300	100	1.1	NE	NE	5,200	11	5,200	0.18	0.48	63	100	100	NA
Attenuation Factor			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	NA
Calculated EPA Residential Soil Vapor RSLs			16,000,000	180	365,000	3,150,000	50,000	550	NE	NE	2,600,000	5,500	2,600,000	90	240	31,500	50,000	50,000	NA
Commercial/Industrial Indoor Air RSLs ²			140,000	1.6	3,100	26,000	440	4.9	NE	NE	22,000	47	22,000	0.77	3.0	260	440	440	NA
Attenuation Factor			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	NA
Calculated EPA Industrial Soil Vapor RSLs			140,000,000	1,600	3,100,000	26,000,000	440,000	4,900	NE	NE	22,000,000	47,000	22,000,000	770	3,000	260,000	440,000	440,000	NA
DTSC Residential SLs (cancer endpoint) ³			NE	0.097	NE	NE	NE	NE	NE	NE	NE	0.46	310*	NE	NE	NE	NE	NE	NA
Attenuation Factor			0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	NA
Calculated DTSC Residential Soil Vapor SLs			NE	48.5	NE	NE	NE	NE	NE	NE	NE	230	155,000	NE	NE	NE	NE	NE	NA
DTSC Commercial/Industrial SLs (cancer endpoint) ³			NE	0.42	NE	NE	NE	NE	NE	NE	NE	2.0	1,300*	NE	NE	NE	NE	NE	NA
Attenuation Factor			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	NA
Calculated DTSC Industrial Soil Vapor SLs			NE	420	NE	NE	NE	NE	NE	NE	NE	2,000	1,300,000	NE	NE	NE	NE	NE	NA

Notes/Abbreviations:

- * Non cancer endpoint value used as cancer endpoint value not established
- Bold** Calculated screening criteria for soil vapor based on quotient of screening criteria for air and attenuation factor
- Bold** Exceedance of screening criteria
- ¹ Value provided is for indoor air, not soil vapor
- bgs Below ground surface
- DTSC Department of Toxic Substance Control
- EPA United States Environmental Protection Agency
- NA Not available
- ND Not detected
- NE Note Established
- RSL EPA Region 9 Regional Screening Level, updated May 2016
- SL Screening Levels, updated January 2016
- µg/m3 Units are in micrograms per meter cubed
- VOCs Volatile Organic Compounds

FIGURES



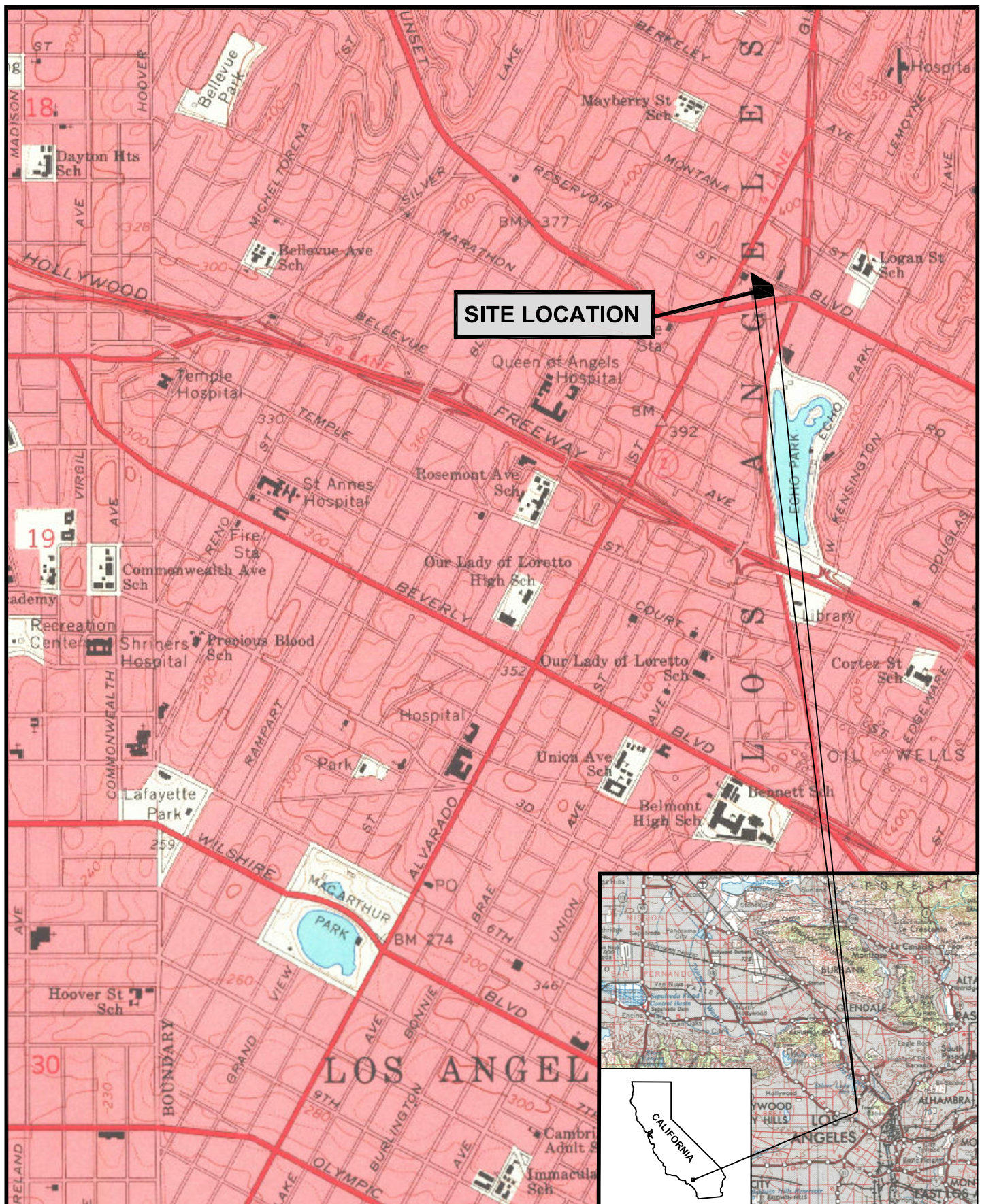


FIGURE 1

Site Location Map

Phase II Environmental Site Assessment
Sunset Property
1911 and 1931 Sunset Boulevard
Los Angeles, California



LEGEND:

--- SITE BOUNDARY

0 35 70
Scale (Feet)

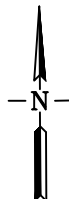


FIGURE 2
Site Map

Phase II Environmental Site Assessment
Sunset Property
1911 and 1931 Sunset Boulevard
Los Angeles, California



Project No. 2047.17



LEGEND

B9



Site Boundary

Soil Boring Location

B2



Soil Boring with
grab-groundwater and
temporary soil vapor probes

0 25 50



Scale (Feet)

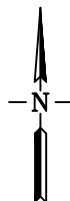


FIGURE 3

Boring Location Map

Phase II Environmental Site Assessment

Sunset Property

1911 and 1913 Sunset Boulevard

Los Angeles, California

Project No. 2047.17



northgate
environmental management, inc.

APPENDIX A
FIELD PROCEDURES



APPENDIX A – FIELD PROCEDURES

Drilling of Soil Borings

Prior to advancing the borings, proposed locations were outlined with white paint. Northgate then notified DigAlert (Underground Service Alert of Southern California) at least 48 hours prior to drilling activities, as required by law. As an additional precaution, Northgate contracted with Ground Penetrating Radar Systems, Incorporated, an independent geophysical utility locating company, to identify underground utilities and other subsurface obstructions so that the sampling locations were “clear” of any subgrade features. After underground features had been identified and underground utilities had been marked, boring locations were finalized.

All borings were advanced using 2.25” (outer diameter) direct-push drilling rods, with soil samples collected in advance of the bit face using a core sampler. Soil borings were advanced using a truck-mounted Geoprobe™ 6600 direct push rig. The borings were advanced using 2.25 inch diameter hollow rods. The lead drilling rod contained a removable 1.5 inch core sampler that was retrieved at the end of each run. Acetate sleeves were used as liners for the core sampler to collect undisturbed soil samples as the rods were advanced. Borings were advanced to depths of up to 28 feet bgs. All borings were located on private property, none were located in streets or sidewalks.

Installation of Temporary Soil Vapor Monitoring Probes

Temporary soil vapor probes (SVPs) were constructed in three of the soil borings. Temporary SVPs were constructed inside the drill rods after they had advanced to total depth. Single completion SVPs were constructed at each location, with the probes set at various depths at each location between approximately 5 and 10 feet bgs.

The SVPs consisted of 6-inch long stainless steel implants set at the desired probe depths. Teflon tubing (0.33 inch diameter) was connected from the implant to the ground surface, and terminated above the existing surface with a valve. The borehole annulus around the implant and tubing was filled through the drill rods with sand 6 inches above and below the implant, 12 inches of dry bentonite placed 1 foot above the sand and hydrated bentonite chips from above the sand to the ground surface.

At the completion of vapor sampling, the borings were abandoned by removing the tubing and backfilling the borings with neat cement grout containing 3% hydrated bentonite powder. The upper three inches of the borings were abandoned using cold-patch asphalt or concrete to match the existing surface.



APPENDIX B
GEOPHYSICAL SURVEY REPORT





Job Date : 12-Dec-18

Customer Northgate Environmental

Phone Number 9493757004

Billing Address

City

State

Zip

24411 Ridge Route Dr- Ste
130

Laguna Hills

CA

92653

Job Details

Jobsite Location 1929 Sunset Blvd

City Los Angeles

State CA

WA Number 103593

Job Num 247.17

PO Num

Lead Technician NEWELL, MIKE

Phone 949-441-9394

Email mike.newell@gp-radar.com

Thank you for using Ground Penetrating Radar Systems on your project. We appreciate the opportunity to work with you. If you have questions regarding the results of this scanning, please contact the lead GPRS technician on this project.

Equipment Used:

The following equipment was used on this project:

- 400 MHz GPR antenna. Typically capable of detecting objects several feet deep. Maximum effective depth depends on site and soil conditions.
- At this site, the maximum effective depth of the GPR was 3'.
- RD 7000/8000 Radio Frequency detector. Detects electromagnetic fields. Used to actively trace metallic pipes and tracer wires, or passively detect electric, communications and other lines.

Work Performed

Ground Penetrating Radar Systems performed the following work on this project:

Scanning the specified area to locate underground utilities and other significant anomalies. A tracer signal was sent along any accessible metallic utility or tracer wire, and the area was scanned with GPR to locate any additional targets. The locations of any detected utilities and anomalies were marked directly at the site with paint, flags, stakes, or other appropriate means, and results were reviewed with onsite personnel.

- At least one pipe could not be traced. A good tracer signal could not be generated on the pipe, due to factors such as the material or condition of the pipe.
- Sewer, storm
Drain, communications
- Marked out all findings, client aware to stay off all marks atleast 2'. Went over all findings and recommendations with site contact. Recommended hand oggering to verify findings. Unable to locate all utilities due to lax depth of gpr, 3'.

Scanning the designated area to attempt to locate evidence of underground storage tanks and/or UST removal excavations. The locations of any USTs, associated piping, or excavations detected were marked with paint, flags, or other appropriate means, and results were reviewed with onsite personnel.

- No evidence found of possibly tanks or excavation locations.

TERMS & CONDITIONS

<https://m.gp-radar.com/terms-conditions>

SIGNATUREA handwritten signature in black ink, appearing to read 'Derrick Willis', is written over a large, faint, light-gray watermark of the same signature.

Contact Name**Contact Phone****Contact Email**

Derrick Willis**9493757004****derrick.willis@ngem.com**





APPENDIX C
BORING LOGS



Boring Log

Project Number: 2047.17	Boring No.: B1	
Project Name: Holland Sunset	Logged by: Derrick Willis	
Location: 1911 Sunset Boulevard	Date Started: 12/17/18	Date Completed: 12/17/18
Drilling Contractor: Strongarm Environmental	Total Depth (ft bgs): 28.0	Depth to Water (ft bgs):
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B101' 12:20	X		SP	Asphalt surface cover approximately 3" thick. Very fine grained sand, light grey, loose, dry. No odor or staining.		1.3	
2					Silt (ML). Medium brown, loose, slightly moist. Silt with some very fine grained sand. No odor or staining.			
3								
4								
5	B105' 12:25	X					2.2	
6								
7								
8								
9								
10	B1010' 12:40	X		ML	Silt (ML). Medium brown, loose, slightly moist. Fining downward with increasing clay content towards the base. No odor or staining.		1.3	
11								
12								
13								
14								
15	B1015' 12:50	X			@ 15.0' Increasing clay content and stiff, slightly moist.		1.8	
16								
17					@17.0' Very stiff, slow drilling.			
18								
19								

Boring Log

Project Number: 2047.17	Boring No.: B1	
Project Name: Holland Sunset	Logged by: Derrick Willis	
Location: 1911 Sunset Boulevard	Date Started: 12/17/18	Date Completed: 12/17/18

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B1020' 1:40	X			Silt (ML). Medium brown, loose, slightly moist. Silt with some very fine grained sand. No odor or staining.		3.6	
22					@ 20.0' silt with clay, very stiff, dry. Minor sand lens 1" - 2" thick and some caliche staining. No odor.			
23								
24				ML				
25	B1025' 2:05	X					3.3	
26								
27								
28								
29					T.D. = refusal at 28.0' 2:30 pm; 12/17/2018			
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

Boring Log

Project Number: 2047.17	Boring No.: B2	
Project Name: Holland Sunset	Logged by: Derrick Willis	
Location: 1911 Sunset Boulevard	Date Started: 12/17/18	Date Completed: 12/17/18
Drilling Contractor: Strongarm Environmental	Total Depth (ft bgs): 15.0	Depth to Water (ft bgs):
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):

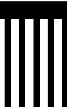

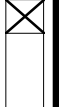
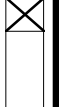
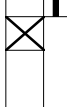
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B201' 03:05	X		ML	Asphalt surface cover approximately 3" thick. Sandy Silt (ML): Medium brown, dry to slightly moist, loose. Very fine grained sand. No odor or staining.		2.8	
2								
3								
4								
5	B205' 03:10	X		CL	Lean Clay (CL). Medium brown, loose, slightly moist. Silt with some very fine grained sand. No odor or staining.		4.1	
6								
7								
8								
9								
10	B2010' 03:15	X		ML	Sandy Silt (ML): Medium brown, dry to slightly moist, loose. Very fine grained sand. No odor or staining.		4.0	
11								
12								
13								
14					@ 14.0' Increasing clay content, stiff, slightly moist. No odor or staining.			
15	B2015' 03:25	X			TD = 15.0' @ 03:25, 12/17/2018		3.8	
16								
17								
18								
19								

Boring Log

Project Number: 2047.17	Boring No.: B3	
Project Name: Holland Sunset	Logged by: Derrick Willis	
Location: 1911 Sunset Boulevard	Date Started: 12/17/18	Date Completed: 12/17/18
Drilling Contractor: Strongarm Environmental	Total Depth (ft bgs): 15.0	Depth to Water (ft bgs):
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B301' 04:10	X		MH	Asphalt surface cover approximately 3" thick. Elastic Silt (MH): Medium brown, slightly moist, Soft. No odor or staining		2.7	
2								
3								
4								
5	B305' 04:15	X		MH	Elastic Silt (MH). Medium brown, loose, slightly moist. Silt with some very fine grained sand. No odor or staining.		3.8	
6								
7								
8								
9								
10	B3010' 04:20	X			Elastic Silt (MH). Medium brown, loose, slightly moist. Silt with some very fine grained sand. No odor or staining.		4.2	
11								
12								
13								
14								
15	B3015' 04:30	X			T.D. = 15.0' @ 4:30 am; 12/17/2018		4.0	
16								
17								
18								
19								

Boring Log

Project Number: 2047.17	Boring No.: B4	
Project Name: Holland Sunset	Logged by: Derrick Willis	
Location: 1911 Sunset Boulevard	Date Started: 12/17/18	Date Completed: 12/17/18
Drilling Contractor: Strongarm Environmental	Total Depth (ft bgs): 15.0	Depth to Water (ft bgs):
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B401' 05:25	×		MH	Asphalt surface cover approximately 3" thick. Elastic Silt (MH): Medium brown, slightly moist, soft. Some moderate to high-plasticity fines, minor very fine sand. No odor or staining		3.7	
2								
3								
4								
5	B405' 05:35	×		MH	Elastic Silt (MH). Medium brown, stiff, slightly moist. Silt with some very fine grained sand. No odor or staining.		3.8	
6								
7								
8								
9				MH				
10	B4010' 05:40	×			@ 10.0' fining downward and stiffer, no sand. No odor or staining.		4.0	
11								
12								
13				MH				
14								
15	B4015' 05:50	×			T.D. = 15.0' @ 5:50 am; 12/17/2018		4.3	
16								
17								
18								
19								

Boring Log

Project Number: 2047.17	Boring No.: B5	
Project Name: Holland Sunset	Logged by: Derrick Willis	
Location: 1911 Sunset Boulevard	Date Started: 12/17/18	Date Completed: 12/17/18
Drilling Contractor: Strongarm Environmental	Total Depth (ft bgs): 17.0	Depth to Water (ft bgs):
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):


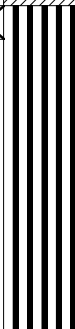
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B501' 00:01	X			Asphalt surface cover approximately 3" thick. Elastic Silt (MH): Medium brown, slightly moist, soft. Minor high-plasticity fines. No odor or staining		0.9	
2								
3								
4								
5	B505' 00:10	X			Elastic Silt (MH): Medium brown, soft, slightly moist. Silt with high-plasticity fines and some very fine grained sand. No odor or staining.		3.2	
6								
7								
8								
9				MH				
10	B5010' 00:20	X					3.6	
11								
12								
13								
14								
15	B5015' 00:35	X			@ 14.0' increasing fines content with more clay. Very stiff, no odor or staining. Refusal @ 17.0'		2.6	
16								
17	B5017' 00:45	X			T.D. = 17.0' @ 12:45 am; 12/17/2018		2.9	
18								
19								

Boring Log

Project Number: 2047.17	Boring No.: B6	
Project Name: Holland Sunset	Logged by: Derrick Willis	
Location: 1911 Sunset Boulevard	Date Started: 12/17/18	Date Completed: 12/17/18
Drilling Contractor: Strongarm Environmental	Total Depth (ft bgs): 15.0	Depth to Water (ft bgs):
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B601' 01:20	X		CL	Asphalt surface cover approximately 3" thick. Lean Clay (CL): Medium brown, stiff, slightly moist. High to moderate-plasticity fines, no odor or staining.		3.5	
2								
3								
4								
5	B605' 01:35	X		MH	Elastic Silt (MH): Medium brown, slightly moist, soft. Minor high-plasticity fines. No odor or staining		3.0	
6								
7								
8								
9								
10	B6010' 01:50	X					2.6	
11								
12								
13								
14								
15	B6015' 02:10	X			Refusal @ 15.0'		4.3	
16					T.D. = 15.0' @ 2:30 pm; 12/17/2018			
17								
18								
19								

APPENDIX D
LABORATORY ANALYTICAL REPORTS





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09 January 2019

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Holland Sunset

Enclosed are the results of analyses for samples received by the laboratory on 12/18/18 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joann Marroquin
Client Services Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1@1	T183752-01	Soil	12/17/18 12:20	12/18/18 11:30
B1@5	T183752-02	Soil	12/17/18 12:25	12/18/18 11:30
B1@10	T183752-03	Soil	12/17/18 12:40	12/18/18 11:30
B1@15	T183752-04	Soil	12/17/18 12:50	12/18/18 11:30
B1@20	T183752-05	Soil	12/17/18 13:40	12/18/18 11:30
B1@25	T183752-06	Soil	12/17/18 14:05	12/18/18 11:30
B2@1	T183752-07	Soil	12/17/18 15:05	12/18/18 11:30
B2@5	T183752-08	Soil	12/17/18 15:10	12/18/18 11:30
B2@10	T183752-09	Soil	12/17/18 15:15	12/18/18 11:30
B2@15	T183752-10	Soil	12/17/18 15:25	12/18/18 11:30
B3@1	T183752-11	Soil	12/17/18 16:10	12/18/18 11:30
B3@5	T183752-12	Soil	12/17/18 16:15	12/18/18 11:30
B3@10	T183752-13	Soil	12/17/18 16:20	12/18/18 11:30
B3@15	T183752-14	Soil	12/17/18 16:30	12/18/18 11:30
B4@1	T183752-15	Soil	12/17/18 17:25	12/18/18 11:30
B4@5	T183752-16	Soil	12/17/18 17:35	12/18/18 11:30
B4@10	T183752-17	Soil	12/17/18 17:40	12/18/18 11:30
B4@15	T183752-18	Soil	12/17/18 17:50	12/18/18 11:30

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

DETECTIONS SUMMARY

Sample ID: B1@1

Laboratory ID: T183752-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	310	10	mg/kg	EPA 8015B	
Barium	110	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	7.7	2.0	mg/kg	EPA 6010b	
Copper	15	1.0	mg/kg	EPA 6010b	
Lead	26	3.0	mg/kg	EPA 6010b	
Nickel	10	2.0	mg/kg	EPA 6010b	
Vanadium	36	5.0	mg/kg	EPA 6010b	
Zinc	75	1.0	mg/kg	EPA 6010b	
Mercury	0.14	0.10	mg/kg	EPA 7471A Soil	

Sample ID: B1@5

Laboratory ID: T183752-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	5.1	5.0	mg/kg	EPA 6010b	
Barium	160	1.0	mg/kg	EPA 6010b	
Chromium	19	2.0	mg/kg	EPA 6010b	
Cobalt	8.3	2.0	mg/kg	EPA 6010b	
Copper	30	1.0	mg/kg	EPA 6010b	
Lead	6.2	3.0	mg/kg	EPA 6010b	
Molybdenum	8.5	5.0	mg/kg	EPA 6010b	
Nickel	21	2.0	mg/kg	EPA 6010b	
Vanadium	42	5.0	mg/kg	EPA 6010b	
Zinc	71	1.0	mg/kg	EPA 6010b	

Sample ID: B1@10

Laboratory ID: T183752-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	5.3	5.0	mg/kg	EPA 6010b	
Barium	220	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Sample ID: B1@10

Laboratory ID: T183752-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Cobalt	18	2.0	mg/kg	EPA 6010b	
Copper	35	1.0	mg/kg	EPA 6010b	
Lead	7.5	3.0	mg/kg	EPA 6010b	
Molybdenum	14	5.0	mg/kg	EPA 6010b	
Nickel	44	2.0	mg/kg	EPA 6010b	
Vanadium	47	5.0	mg/kg	EPA 6010b	
Zinc	83	1.0	mg/kg	EPA 6010b	

Sample ID: B1@15

Laboratory ID: T183752-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	5.8	5.0	mg/kg	EPA 6010b	
Barium	240	1.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	11	2.0	mg/kg	EPA 6010b	
Copper	29	1.0	mg/kg	EPA 6010b	
Lead	5.8	3.0	mg/kg	EPA 6010b	
Molybdenum	12	5.0	mg/kg	EPA 6010b	
Nickel	31	2.0	mg/kg	EPA 6010b	
Vanadium	44	5.0	mg/kg	EPA 6010b	
Zinc	87	1.0	mg/kg	EPA 6010b	
Ethylbenzene	6.7	4.7	ug/kg	EPA 8260B/5035	M-02, 5035R

Sample ID: B1@20

Laboratory ID: T183752-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	27	10	mg/kg	EPA 8015B	
Arsenic	5.6	5.0	mg/kg	EPA 6010b	
Barium	75	1.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	13	2.0	mg/kg	EPA 6010b	
Copper	31	1.0	mg/kg	EPA 6010b	
Lead	5.8	3.0	mg/kg	EPA 6010b	
Molybdenum	8.4	5.0	mg/kg	EPA 6010b	
Nickel	26	2.0	mg/kg	EPA 6010b	

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Joann Marroquin, Client Services Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Sample ID: B1@20

Laboratory ID: T183752-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Vanadium	40	5.0	mg/kg	EPA 6010b	
Zinc	77	1.0	mg/kg	EPA 6010b	

Sample ID: B1@25

Laboratory ID: T183752-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	84	1.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	13	2.0	mg/kg	EPA 6010b	
Copper	24	1.0	mg/kg	EPA 6010b	
Lead	6.1	3.0	mg/kg	EPA 6010b	
Molybdenum	7.5	5.0	mg/kg	EPA 6010b	
Nickel	26	2.0	mg/kg	EPA 6010b	
Vanadium	38	5.0	mg/kg	EPA 6010b	
Zinc	64	1.0	mg/kg	EPA 6010b	
Ethylbenzene	6.7	5.8	ug/kg	EPA 8260B/5035	

Sample ID: B2@1

Laboratory ID: T183752-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	400	10	mg/kg	EPA 8015B	
Barium	150	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	9.4	2.0	mg/kg	EPA 6010b	
Copper	30	1.0	mg/kg	EPA 6010b	
Lead	11	3.0	mg/kg	EPA 6010b	
Molybdenum	5.1	5.0	mg/kg	EPA 6010b	
Nickel	21	2.0	mg/kg	EPA 6010b	
Vanadium	39	5.0	mg/kg	EPA 6010b	
Zinc	73	1.0	mg/kg	EPA 6010b	

Sample ID: B2@5

Laboratory ID: T183752-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Sample ID: B2@5

Laboratory ID: T183752-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	170	1.0		mg/kg	EPA 6010b	
Chromium	18	2.0		mg/kg	EPA 6010b	
Cobalt	15	2.0		mg/kg	EPA 6010b	
Copper	30	1.0		mg/kg	EPA 6010b	
Lead	7.2	3.0		mg/kg	EPA 6010b	
Molybdenum	6.7	5.0		mg/kg	EPA 6010b	
Nickel	33	2.0		mg/kg	EPA 6010b	
Vanadium	43	5.0		mg/kg	EPA 6010b	
Zinc	72	1.0		mg/kg	EPA 6010b	

Sample ID: B2@10

Laboratory ID: T183752-09

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	91	1.0		mg/kg	EPA 6010b	
Chromium	19	2.0		mg/kg	EPA 6010b	
Cobalt	14	2.0		mg/kg	EPA 6010b	
Copper	28	1.0		mg/kg	EPA 6010b	
Lead	6.9	3.0		mg/kg	EPA 6010b	
Molybdenum	5.5	5.0		mg/kg	EPA 6010b	
Nickel	24	2.0		mg/kg	EPA 6010b	
Vanadium	34	5.0		mg/kg	EPA 6010b	
Zinc	64	1.0		mg/kg	EPA 6010b	

Sample ID: B2@15

Laboratory ID: T183752-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	60	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	14	2.0		mg/kg	EPA 6010b	
Copper	27	1.0		mg/kg	EPA 6010b	
Lead	6.1	3.0		mg/kg	EPA 6010b	
Molybdenum	8.4	5.0		mg/kg	EPA 6010b	
Nickel	38	2.0		mg/kg	EPA 6010b	
Vanadium	33	5.0		mg/kg	EPA 6010b	
Zinc	57	1.0		mg/kg	EPA 6010b	

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Joann Marroquin, Client Services Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Sample ID: B3@1

Laboratory ID: T183752-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	220	10	mg/kg	EPA 8015B	
Barium	150	1.0	mg/kg	EPA 6010b	
Chromium	14	2.0	mg/kg	EPA 6010b	
Cobalt	12	2.0	mg/kg	EPA 6010b	
Copper	27	1.0	mg/kg	EPA 6010b	
Lead	10	3.0	mg/kg	EPA 6010b	
Molybdenum	5.4	5.0	mg/kg	EPA 6010b	
Nickel	32	2.0	mg/kg	EPA 6010b	
Vanadium	37	5.0	mg/kg	EPA 6010b	
Zinc	67	1.0	mg/kg	EPA 6010b	
Ethylbenzene	22	4.9	ug/kg	EPA 8260B/5035	5035R
m,p-Xylene	110	9.8	ug/kg	EPA 8260B/5035	5035R
o-Xylene	45	4.9	ug/kg	EPA 8260B/5035	5035R

Sample ID: B3@5

Laboratory ID: T183752-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	130	1.0	mg/kg	EPA 6010b	
Chromium	19	2.0	mg/kg	EPA 6010b	
Cobalt	9.7	2.0	mg/kg	EPA 6010b	
Copper	34	1.0	mg/kg	EPA 6010b	
Lead	8.0	3.0	mg/kg	EPA 6010b	
Molybdenum	6.2	5.0	mg/kg	EPA 6010b	
Nickel	22	2.0	mg/kg	EPA 6010b	
Vanadium	40	5.0	mg/kg	EPA 6010b	
Zinc	73	1.0	mg/kg	EPA 6010b	

Sample ID: B3@10

Laboratory ID: T183752-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	6.2	5.0	mg/kg	EPA 6010b	
Barium	120	1.0	mg/kg	EPA 6010b	
Chromium	17	2.0	mg/kg	EPA 6010b	
Cobalt	15	2.0	mg/kg	EPA 6010b	
Copper	40	1.0	mg/kg	EPA 6010b	

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Project Number: 2047.17.01
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Sample ID: B3@10

Laboratory ID: T183752-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	8.3	3.0	mg/kg	EPA 6010b	
Molybdenum	14	5.0	mg/kg	EPA 6010b	
Nickel	43	2.0	mg/kg	EPA 6010b	
Vanadium	45	5.0	mg/kg	EPA 6010b	
Zinc	84	1.0	mg/kg	EPA 6010b	

Sample ID: B3@15

Laboratory ID: T183752-14

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	7.4	5.0	mg/kg	EPA 6010b	
Barium	85	1.0	mg/kg	EPA 6010b	
Chromium	17	2.0	mg/kg	EPA 6010b	
Cobalt	18	2.0	mg/kg	EPA 6010b	
Copper	31	1.0	mg/kg	EPA 6010b	
Lead	7.4	3.0	mg/kg	EPA 6010b	
Molybdenum	10	5.0	mg/kg	EPA 6010b	
Nickel	46	2.0	mg/kg	EPA 6010b	
Vanadium	43	5.0	mg/kg	EPA 6010b	
Zinc	83	1.0	mg/kg	EPA 6010b	
Ethylbenzene	7.1	5.2	ug/kg	EPA 8260B/5035	5035R, M-02

Sample ID: B4@1

Laboratory ID: T183752-15

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	450	10	mg/kg	EPA 8015B	
Barium	320	1.0	mg/kg	EPA 6010b	
Chromium	14	2.0	mg/kg	EPA 6010b	
Cobalt	13	2.0	mg/kg	EPA 6010b	
Copper	30	1.0	mg/kg	EPA 6010b	
Lead	11	3.0	mg/kg	EPA 6010b	
Molybdenum	8.4	5.0	mg/kg	EPA 6010b	
Nickel	29	2.0	mg/kg	EPA 6010b	
Vanadium	36	5.0	mg/kg	EPA 6010b	
Zinc	81	1.0	mg/kg	EPA 6010b	

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Sample ID: B4@5

Laboratory ID: T183752-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	86	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	11	2.0	mg/kg	EPA 6010b	
Copper	23	1.0	mg/kg	EPA 6010b	
Lead	6.6	3.0	mg/kg	EPA 6010b	
Molybdenum	5.6	5.0	mg/kg	EPA 6010b	
Nickel	21	2.0	mg/kg	EPA 6010b	
Vanadium	35	5.0	mg/kg	EPA 6010b	
Zinc	63	1.0	mg/kg	EPA 6010b	

Sample ID: B4@10

Laboratory ID: T183752-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	110	10	mg/kg	EPA 8015B	
Arsenic	5.5	5.0	mg/kg	EPA 6010b	
Barium	69	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	11	2.0	mg/kg	EPA 6010b	
Copper	28	1.0	mg/kg	EPA 6010b	
Lead	8.1	3.0	mg/kg	EPA 6010b	
Molybdenum	7.3	5.0	mg/kg	EPA 6010b	
Nickel	25	2.0	mg/kg	EPA 6010b	
Vanadium	36	5.0	mg/kg	EPA 6010b	
Zinc	71	1.0	mg/kg	EPA 6010b	
1,2,4-Trimethylbenzene	6.2	5.5	ug/kg	EPA 8260B/5035	5035R
Ethylbenzene	5.7	5.5	ug/kg	EPA 8260B/5035	5035R

Sample ID: B4@15

Laboratory ID: T183752-18

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	5.9	5.0	mg/kg	EPA 6010b	
Barium	110	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	9.1	2.0	mg/kg	EPA 6010b	
Copper	29	1.0	mg/kg	EPA 6010b	

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Sample ID: B4@15

Laboratory ID: T183752-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	6.9	3.0		mg/kg	EPA 6010b	
Molybdenum	8.7	5.0		mg/kg	EPA 6010b	
Nickel	20	2.0		mg/kg	EPA 6010b	
Vanadium	40	5.0		mg/kg	EPA 6010b	
Zinc	74	1.0		mg/kg	EPA 6010b	

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B1@1

T183752-01 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	510	ug/kg	1	8121929	12/19/18	12/19/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		65.7 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	310	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		94.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	110	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	7.7	2.0	"	"	"	"	"	"	
Copper	15	1.0	"	"	"	"	"	"	
Lead	26	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	10	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	36	5.0	"	"	"	"	"	"	
Zinc	75	1.0	"	"	"	"	"	"	

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B1@1

T183752-01 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	0.14	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	100	ug/kg	20	8121933	12/19/18	12/20/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	R-07
beta-BHC	ND	100	"	"	"	"	"	"	R-07
delta-BHC	ND	100	"	"	"	"	"	"	R-07
Heptachlor	ND	100	"	"	"	"	"	"	R-07
Aldrin	ND	100	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	100	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	100	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	100	"	"	"	"	"	"	R-07
Endosulfan I	ND	100	"	"	"	"	"	"	R-07
4,4'-DDE	ND	100	"	"	"	"	"	"	R-07
Dieldrin	ND	100	"	"	"	"	"	"	R-07
Endrin	ND	100	"	"	"	"	"	"	R-07
4,4'-DDD	ND	100	"	"	"	"	"	"	R-07
Endosulfan II	ND	100	"	"	"	"	"	"	R-07
4,4'-DDT	ND	100	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	100	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	100	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	100	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

75.7 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

77.0 %

35-140

"

"

"

"

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B1@1

T183752-01 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		76.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		73.7 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.3	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Bromochloromethane	ND	5.3	"	"	"	"	"	"	
Bromodichloromethane	ND	5.3	"	"	"	"	"	"	
Bromoform	ND	5.3	"	"	"	"	"	"	
Bromomethane	ND	5.3	"	"	"	"	"	"	
n-Butylbenzene	ND	5.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.3	"	"	"	"	"	"	
Chlorobenzene	ND	5.3	"	"	"	"	"	"	
Chloroethane	ND	5.3	"	"	"	"	"	"	
Chloroform	ND	5.3	"	"	"	"	"	"	
Chloromethane	ND	5.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.3	"	"	"	"	"	"	
Dibromochloromethane	ND	5.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.3	"	"	"	"	"	"	
Dibromomethane	ND	5.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.3	"	"	"	"	"	"	

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B1@1

T183752-01 (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

1,4-Dichlorobenzene	ND	5.3	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.3	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.3	"	"	"	"	"	"	
Isopropylbenzene	ND	5.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.3	"	"	"	"	"	"	
Methylene chloride	ND	5.3	"	"	"	"	"	"	
Naphthalene	ND	5.3	"	"	"	"	"	"	
n-Propylbenzene	ND	5.3	"	"	"	"	"	"	
Styrene	ND	5.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.3	"	"	"	"	"	"	
Tetrachloroethene	ND	5.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.3	"	"	"	"	"	"	
Trichloroethene	ND	5.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.3	"	"	"	"	"	"	

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T183752-01 (Soil)

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

1,2,4-Trimethylbenzene	ND	5.3	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Vinyl chloride	ND	5.3	"	"	"	"	"	"	
Benzene	ND	5.3	"	"	"	"	"	"	
Toluene	ND	5.3	"	"	"	"	"	"	
Ethylbenzene	ND	5.3	"	"	"	"	"	"	
m,p-Xylene	ND	11	"	"	"	"	"	"	
o-Xylene	ND	5.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Phenol	ND	1000000	"	"	"	"	"	"	R-07
Aniline	ND	300000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	1000000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	300000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthene	ND	300000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	300000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Pyrene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	300000	"	"	"	"	"	"	R-07
Anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	300000	"	"	"	"	"	"	R-07

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@1

T183752-01 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	300000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	300000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	300000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Chrysene	ND	300000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	300000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	300000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	300000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	1000000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	1000000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	300000	"	"	"	"	"	"	R-07
Fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Fluorene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	1500000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	1000000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	300000	"	"	"	"	"	"	R-07

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Isophorone	ND	300000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
Naphthalene	ND	300000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	1000000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	300000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
Phenanthrene	ND	300000	"	"	"	"	"	"	R-07
Azobenzene	ND	300000	"	"	"	"	"	"	R-07
Pyridine	ND	300000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		%	15-121		"	"	"	"	S-01
Surrogate: Phenol-d6		%	24-113		"	"	"	"	S-01
Surrogate: Nitrobenzene-d5		%	21.3-119		"	"	"	"	S-01
Surrogate: 2-Fluorobiphenyl		%	32.4-102		"	"	"	"	S-01
Surrogate: 2,4,6-Tribromophenol		%	18.1-105		"	"	"	"	S-01
Surrogate: Terphenyl-d14		%	29.1-130		"	"	"	"	S-01

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T183752-02 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	660	ug/kg	1	8121929	12/19/18	12/19/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		73.0 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		93.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/26/18	"	
Arsenic	5.1	5.0	"	"	"	"	12/26/18	"	
Barium	160	1.0	"	"	"	"	12/26/18	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	8.3	2.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	12/26/18	"	
Lead	6.2	3.0	"	"	"	"	12/26/18	"	
Molybdenum	8.5	5.0	"	"	"	"	"	"	
Nickel	21	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	42	5.0	"	"	"	"	12/26/18	"	
Zinc	71	1.0	"	"	"	"	12/26/18	"	

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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121933	12/19/18	12/20/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

86.0 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

103 % 35-140

" " " "

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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		63.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		68.0 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	6.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Bromochloromethane	ND	6.2	"	"	"	"	"	"	5035R
Bromodichloromethane	ND	6.2	"	"	"	"	"	"	5035R
Bromoform	ND	6.2	"	"	"	"	"	"	5035R
Bromomethane	ND	6.2	"	"	"	"	"	"	5035R
n-Butylbenzene	ND	6.2	"	"	"	"	"	"	5035R
sec-Butylbenzene	ND	6.2	"	"	"	"	"	"	5035R
tert-Butylbenzene	ND	6.2	"	"	"	"	"	"	5035R
Carbon tetrachloride	ND	6.2	"	"	"	"	"	"	5035R
Chlorobenzene	ND	6.2	"	"	"	"	"	"	5035R
Chloroethane	ND	6.2	"	"	"	"	"	"	5035R
Chloroform	ND	6.2	"	"	"	"	"	"	5035R
Chloromethane	ND	6.2	"	"	"	"	"	"	5035R
2-Chlorotoluene	ND	6.2	"	"	"	"	"	"	5035R
4-Chlorotoluene	ND	6.2	"	"	"	"	"	"	5035R
Dibromochloromethane	ND	6.2	"	"	"	"	"	"	5035R
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	5035R
1,2-Dibromoethane (EDB)	ND	6.2	"	"	"	"	"	"	5035R
Dibromomethane	ND	6.2	"	"	"	"	"	"	5035R
1,2-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	5035R
1,3-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	5035R

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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	6.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Dichlorodifluoromethane	ND	6.2	"	"	"	"	"	"	5035R
1,1-Dichloroethane	ND	6.2	"	"	"	"	"	"	5035R
1,2-Dichloroethane	ND	6.2	"	"	"	"	"	"	5035R
1,1-Dichloroethene	ND	6.2	"	"	"	"	"	"	5035R
cis-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"	5035R
trans-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"	5035R
1,2-Dichloropropane	ND	6.2	"	"	"	"	"	"	5035R
1,3-Dichloropropane	ND	6.2	"	"	"	"	"	"	5035R
2,2-Dichloropropane	ND	6.2	"	"	"	"	"	"	5035R
1,1-Dichloropropene	ND	6.2	"	"	"	"	"	"	5035R
cis-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"	5035R
trans-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"	5035R
Hexachlorobutadiene	ND	6.2	"	"	"	"	"	"	5035R
Isopropylbenzene	ND	6.2	"	"	"	"	"	"	5035R
p-Isopropyltoluene	ND	6.2	"	"	"	"	"	"	5035R
Methylene chloride	ND	6.2	"	"	"	"	"	"	5035R
Naphthalene	ND	6.2	"	"	"	"	"	"	5035R
n-Propylbenzene	ND	6.2	"	"	"	"	"	"	5035R
Styrene	ND	6.2	"	"	"	"	"	"	5035R
1,1,2,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	5035R
1,1,1,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	5035R
Tetrachloroethene	ND	6.2	"	"	"	"	"	"	5035R
1,2,3-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	5035R
1,2,4-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	5035R
1,1,2-Trichloroethane	ND	6.2	"	"	"	"	"	"	5035R
1,1,1-Trichloroethane	ND	6.2	"	"	"	"	"	"	5035R
Trichloroethene	ND	6.2	"	"	"	"	"	"	5035R
Trichlorofluoromethane	ND	6.2	"	"	"	"	"	"	5035R
1,2,3-Trichloropropane	ND	6.2	"	"	"	"	"	"	5035R
1,3,5-Trimethylbenzene	ND	6.2	"	"	"	"	"	"	5035R

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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	6.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Vinyl chloride	ND	6.2	"	"	"	"	"	"	5035R
Benzene	ND	6.2	"	"	"	"	"	"	5035R
Toluene	ND	6.2	"	"	"	"	"	"	5035R
Ethylbenzene	ND	6.2	"	"	"	"	"	"	5035R
m,p-Xylene	ND	12	"	"	"	"	"	"	5035R
o-Xylene	ND	6.2	"	"	"	"	"	"	5035R
Surrogate: Toluene-d8		101 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		105 %	85.9-114		"	"	"	"	5035R
Surrogate: Dibromofluoromethane		110 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@5

T183752-02 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	61.4 %	15-121			"	"	"	"
Surrogate: Phenol-d6	58.1 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	66.9 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	74.2 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	86.2 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	85.7 %	29.1-130			"	"	"	"

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Project Number: 2047.17.01
Project Manager: Derrick Willis

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T183752-03 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	480	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		68.4 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		91.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.3	5.0	"	"	"	"	"	"	
Barium	220	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	18	2.0	"	"	"	"	"	"	
Copper	35	1.0	"	"	"	"	"	"	
Lead	7.5	3.0	"	"	"	"	"	"	
Molybdenum	14	5.0	"	"	"	"	"	"	
Nickel	44	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	47	5.0	"	"	"	"	"	"	
Zinc	83	1.0	"	"	"	"	"	"	

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T183752-03 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121933	12/19/18	12/20/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

89.8 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

98.7 % 35-140

" " " "

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Project Manager: Derrick Willis

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B1@10
T183752-03 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		68.4 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		74.1 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.7	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Bromochloromethane	ND	4.7	"	"	"	"	"	"	
Bromodichloromethane	ND	4.7	"	"	"	"	"	"	
Bromoform	ND	4.7	"	"	"	"	"	"	
Bromomethane	ND	4.7	"	"	"	"	"	"	
n-Butylbenzene	ND	4.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.7	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	4.7	"	"	"	"	"	"	
Chloroform	ND	4.7	"	"	"	"	"	"	
Chloromethane	ND	4.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.7	"	"	"	"	"	"	
Dibromochloromethane	ND	4.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	9.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.7	"	"	"	"	"	"	
Dibromomethane	ND	4.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.7	"	"	"	"	"	"	

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Project: Holland Sunset
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Project Manager: Derrick Willis

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T183752-03 (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

1,4-Dichlorobenzene	ND	4.7	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	4.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.7	"	"	"	"	"	"	
Isopropylbenzene	ND	4.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.7	"	"	"	"	"	"	
Methylene chloride	ND	4.7	"	"	"	"	"	"	
Naphthalene	ND	4.7	"	"	"	"	"	"	
n-Propylbenzene	ND	4.7	"	"	"	"	"	"	
Styrene	ND	4.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.7	"	"	"	"	"	"	
Tetrachloroethene	ND	4.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.7	"	"	"	"	"	"	
Trichloroethene	ND	4.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.7	"	"	"	"	"	"	

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T183752-03 (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

1,2,4-Trimethylbenzene	ND	4.7	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Vinyl chloride	ND	4.7	"	"	"	"	"	"	
Benzene	ND	4.7	"	"	"	"	"	"	
Toluene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.7	"	"	"	"	"	"	
m,p-Xylene	ND	9.4	"	"	"	"	"	"	
o-Xylene	ND	4.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		97.8 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T183752-03 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T183752-03 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	57.9 %	15-121			"	"	"	"
Surrogate: Phenol-d6	57.4 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	66.1 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	73.5 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	90.0 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	91.3 %	29.1-130			"	"	"	"

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@15

T183752-04 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	630	ug/kg	1	8121929	12/19/18	12/19/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		72.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		96.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.8	5.0	"	"	"	"	"	"	
Barium	240	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	5.8	3.0	"	"	"	"	"	"	
Molybdenum	12	5.0	"	"	"	"	"	"	
Nickel	31	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	44	5.0	"	"	"	"	"	"	
Zinc	87	1.0	"	"	"	"	"	"	

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B1@15

T183752-04 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.7	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Bromochloromethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Bromodichloromethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Bromoform	ND	4.7	"	"	"	"	"	"	5035R, M-02
Bromomethane	ND	4.7	"	"	"	"	"	"	5035R, M-02
n-Butylbenzene	ND	4.7	"	"	"	"	"	"	5035R, M-02
sec-Butylbenzene	ND	4.7	"	"	"	"	"	"	5035R, M-02
tert-Butylbenzene	ND	4.7	"	"	"	"	"	"	5035R, M-02
Carbon tetrachloride	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Chlorobenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Chloroethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Chloroform	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Chloromethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
2-Chlorotoluene	ND	4.7	"	"	"	"	"	"	5035R, M-02
4-Chlorotoluene	ND	4.7	"	"	"	"	"	"	5035R, M-02
Dibromochloromethane	ND	4.7	"	"	"	"	"	"	5035R, M-02
1,2-Dibromo-3-chloropropane	ND	9.4	"	"	"	"	"	"	5035R, M-02
1,2-Dibromoethane (EDB)	ND	4.7	"	"	"	"	"	"	5035R, M-02
Dibromomethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,2-Dichlorobenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,3-Dichlorobenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,4-Dichlorobenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Dichlorodifluoromethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloroethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
cis-1,2-Dichloroethene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
trans-1,2-Dichloroethene	ND	4.7	"	"	"	"	"	"	M-02, 5035R

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Project Manager: Derrick Willis

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01/09/19 15:06

B1@15
T183752-04 (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-Dichloropropane	ND	4.7	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
1,3-Dichloropropane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
2,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloropropene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
cis-1,3-Dichloropropene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
trans-1,3-Dichloropropene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Hexachlorobutadiene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Isopropylbenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
p-Isopropyltoluene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Methylene chloride	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Naphthalene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
n-Propylbenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Styrene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,1,2,2-Tetrachloroethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,1,1,2-Tetrachloroethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Tetrachloroethene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichlorobenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,2,4-Trichlorobenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,1,2-Trichloroethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,1,1-Trichloroethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Trichloroethene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Trichlorofluoromethane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichloropropane	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,3,5-Trimethylbenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
1,2,4-Trimethylbenzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Vinyl chloride	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Benzene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Toluene	ND	4.7	"	"	"	"	"	"	M-02, 5035R
Ethylbenzene	6.7	4.7	"	"	"	"	"	"	M-02, 5035R
m,p-Xylene	ND	9.4	"	"	"	"	"	"	M-02, 5035R
o-Xylene	ND	4.7	"	"	"	"	"	"	M-02, 5035R

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@15

T183752-04 (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

Surrogate: Toluene-d8	101 %	76.1-127	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Surrogate: 4-Bromofluorobenzene	101 %	85.9-114	"	"	"	"	5035R
Surrogate: Dibromofluoromethane	109 %	77.8-142	"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Phenol	ND	1000	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@15

T183752-04 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

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Project: Holland Sunset
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Reported:
01/09/19 15:06

B1@15

T183752-04 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Nitroaniline	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	47.4 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	48.2 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	54.0 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	62.4 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	87.6 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	87.9 %	29.1-130	"	"	"	"	"	"

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B1@20

T183752-05 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	590	ug/kg	1	8121929	12/19/18	12/19/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		77.2 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	27	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		87.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.6	5.0	"	"	"	"	"	"	
Barium	75	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	31	1.0	"	"	"	"	"	"	
Lead	5.8	3.0	"	"	"	"	"	"	
Molybdenum	8.4	5.0	"	"	"	"	"	"	
Nickel	26	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	40	5.0	"	"	"	"	"	"	
Zinc	77	1.0	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@20

T183752-05 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	6.3	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Bromochloromethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Bromodichloromethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Bromoform	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Bromomethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
n-Butylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
sec-Butylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
tert-Butylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Carbon tetrachloride	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Chlorobenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Chloroethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Chloroform	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Chloromethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
2-Chlorotoluene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
4-Chlorotoluene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Dibromochloromethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromo-3-chloropropane	ND	13	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromoethane (EDB)	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Dibromomethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,2-Dichlorobenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,3-Dichlorobenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,4-Dichlorobenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Dichlorodifluoromethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloroethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
cis-1,2-Dichloroethene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
trans-1,2-Dichloroethene	ND	6.3	"	"	"	"	"	"	M-02, 5035R

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
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B1@20
T183752-05 (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-Dichloropropane	ND	6.3	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
1,3-Dichloropropane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
2,2-Dichloropropane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloropropene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
cis-1,3-Dichloropropene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
trans-1,3-Dichloropropene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Hexachlorobutadiene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Isopropylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
p-Isopropyltoluene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Methylene chloride	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Naphthalene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
n-Propylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Styrene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,1,2,2-Tetrachloroethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,1,1,2-Tetrachloroethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Tetrachloroethene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichlorobenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,2,4-Trichlorobenzene	ND	6.3	"	"	"	"	"	"	5035R, M-02
1,1,2-Trichloroethane	ND	6.3	"	"	"	"	"	"	5035R, M-02
1,1,1-Trichloroethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Trichloroethene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Trichlorofluoromethane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichloropropane	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,3,5-Trimethylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
1,2,4-Trimethylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Vinyl chloride	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Benzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Toluene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
Ethylbenzene	ND	6.3	"	"	"	"	"	"	M-02, 5035R
m,p-Xylene	ND	13	"	"	"	"	"	"	M-02, 5035R
o-Xylene	ND	6.3	"	"	"	"	"	"	M-02, 5035R

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@20

T183752-05 (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

Surrogate: Toluene-d8	102 %	76.1-127	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Surrogate: 4-Bromofluorobenzene	103 %	85.9-114	"	"	"	"	5035R
Surrogate: Dibromofluoromethane	121 %	77.8-142	"	"	"	"	5035R

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Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@25

T183752-06 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	500	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: a,a,a-Trifluorotoluene		74.3 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		94.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	84	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	24	1.0	"	"	"	"	"	"	
Lead	6.1	3.0	"	"	"	"	"	"	
Molybdenum	7.5	5.0	"	"	"	"	"	"	
Nickel	26	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	38	5.0	"	"	"	"	"	"	
Zinc	64	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B1@25

T183752-06 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.8	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Bromochloromethane	ND	5.8	"	"	"	"	"	"	
Bromodichloromethane	ND	5.8	"	"	"	"	"	"	
Bromoform	ND	5.8	"	"	"	"	"	"	
Bromomethane	ND	5.8	"	"	"	"	"	"	
n-Butylbenzene	ND	5.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.8	"	"	"	"	"	"	
Chlorobenzene	ND	5.8	"	"	"	"	"	"	
Chloroethane	ND	5.8	"	"	"	"	"	"	
Chloroform	ND	5.8	"	"	"	"	"	"	
Chloromethane	ND	5.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.8	"	"	"	"	"	"	
Dibromochloromethane	ND	5.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.8	"	"	"	"	"	"	
Dibromomethane	ND	5.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.8	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B1@25
T183752-06 (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-Dichloropropane	ND	5.8	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	5.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.8	"	"	"	"	"	"	
Isopropylbenzene	ND	5.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.8	"	"	"	"	"	"	
Methylene chloride	ND	5.8	"	"	"	"	"	"	
Naphthalene	ND	5.8	"	"	"	"	"	"	
n-Propylbenzene	ND	5.8	"	"	"	"	"	"	
Styrene	ND	5.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.8	"	"	"	"	"	"	
Tetrachloroethene	ND	5.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.8	"	"	"	"	"	"	
Trichloroethene	ND	5.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.8	"	"	"	"	"	"	
Vinyl chloride	ND	5.8	"	"	"	"	"	"	
Benzene	ND	5.8	"	"	"	"	"	"	
Toluene	ND	5.8	"	"	"	"	"	"	
Ethylbenzene	6.7	5.8	"	"	"	"	"	"	
m,p-Xylene	ND	12	"	"	"	"	"	"	
o-Xylene	ND	5.8	"	"	"	"	"	"	

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B1@25

T183752-06 (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

Surrogate: Toluene-d8	95.8 %	76.1-127	8121925	12/19/18	12/22/18	EPA 8260B/5035
Surrogate: 4-Bromofluorobenzene	97.3 %	85.9-114	"	"	"	"
Surrogate: Dibromofluoromethane	101 %	77.8-142	"	"	"	"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@1

T183752-07 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	510	ug/kg	1	8121929	12/19/18	12/19/18	EPA 8015B/5035	
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Surrogate: *a,a,a-Trifluorotoluene* 65.7 % 65-135 " " " "

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	400	10	"	"	"	"	"	"	

Surrogate: *p-Terphenyl* 86.0 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	9.4	2.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	11	3.0	"	"	"	"	"	"	
Molybdenum	5.1	5.0	"	"	"	"	"	"	
Nickel	21	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	39	5.0	"	"	"	"	"	"	
Zinc	73	1.0	"	"	"	"	"	"	

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Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@1

T183752-07 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	250	ug/kg	50	8121933	12/19/18	12/20/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	250	"	"	"	"	"	"	R-07
beta-BHC	ND	250	"	"	"	"	"	"	R-07
delta-BHC	ND	250	"	"	"	"	"	"	R-07
Heptachlor	ND	250	"	"	"	"	"	"	R-07
Aldrin	ND	250	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	250	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	250	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	250	"	"	"	"	"	"	R-07
Endosulfan I	ND	250	"	"	"	"	"	"	R-07
4,4'-DDE	ND	250	"	"	"	"	"	"	R-07
Dieldrin	ND	250	"	"	"	"	"	"	R-07
Endrin	ND	250	"	"	"	"	"	"	R-07
4,4'-DDD	ND	250	"	"	"	"	"	"	R-07
Endosulfan II	ND	250	"	"	"	"	"	"	R-07
4,4'-DDT	ND	250	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	250	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	250	"	"	"	"	"	"	R-07
Methoxychlor	ND	250	"	"	"	"	"	"	R-07
Endrin ketone	ND	250	"	"	"	"	"	"	R-07
Toxaphene	ND	1000	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene	87.9 %	35-140	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	158 %	35-140	"	"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@1

T183752-07 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		75.7 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		71.7 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Bromochloromethane	ND	5.2	"	"	"	"	"	"	
Bromodichloromethane	ND	5.2	"	"	"	"	"	"	
Bromoform	ND	5.2	"	"	"	"	"	"	
Bromomethane	ND	5.2	"	"	"	"	"	"	
n-Butylbenzene	ND	5.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.2	"	"	"	"	"	"	
Chlorobenzene	ND	5.2	"	"	"	"	"	"	
Chloroethane	ND	5.2	"	"	"	"	"	"	
Chloroform	ND	5.2	"	"	"	"	"	"	
Chloromethane	ND	5.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.2	"	"	"	"	"	"	
Dibromochloromethane	ND	5.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.2	"	"	"	"	"	"	
Dibromomethane	ND	5.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	

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B2@1

T183752-07 (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

1,4-Dichlorobenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.2	"	"	"	"	"	"	
Isopropylbenzene	ND	5.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.2	"	"	"	"	"	"	
Methylene chloride	ND	5.2	"	"	"	"	"	"	
Naphthalene	ND	5.2	"	"	"	"	"	"	
n-Propylbenzene	ND	5.2	"	"	"	"	"	"	
Styrene	ND	5.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	
Tetrachloroethene	ND	5.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.2	"	"	"	"	"	"	
Trichloroethene	ND	5.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	

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T183752-07 (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

1,2,4-Trimethylbenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Vinyl chloride	ND	5.2	"	"	"	"	"	"	
Benzene	ND	5.2	"	"	"	"	"	"	
Toluene	ND	5.2	"	"	"	"	"	"	
Ethylbenzene	ND	5.2	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	53.0 %	15-121			"	"	"	"	
Surrogate: Phenol-d6	39.0 %	24-113			"	"	"	"	
Surrogate: Nitrobenzene-d5	55.0 %	21.3-119			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.0 %	32.4-102			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	43.0 %	18.1-105			"	"	"	"	
Surrogate: Terphenyl-d14	82.0 %	29.1-130			"	"	"	"	

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B2@5

T183752-08 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	480	ug/kg	1	8121929	12/19/18	12/19/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		65.3 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		95.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	170	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	15	2.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	7.2	3.0	"	"	"	"	"	"	
Molybdenum	6.7	5.0	"	"	"	"	"	"	
Nickel	33	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	43	5.0	"	"	"	"	"	"	
Zinc	72	1.0	"	"	"	"	"	"	

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T183752-08 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121933	12/19/18	12/20/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

89.2 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

103 % 35-140

" " " "

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B2@5

T183752-08 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		62.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		66.7 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.9	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Bromochloromethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Bromodichloromethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Bromoform	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Bromomethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
n-Butylbenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
sec-Butylbenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
tert-Butylbenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Carbon tetrachloride	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Chlorobenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Chloroethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Chloroform	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Chloromethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
2-Chlorotoluene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
4-Chlorotoluene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Dibromochloromethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromo-3-chloropropane	ND	9.7	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromoethane (EDB)	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Dibromomethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,2-Dichlorobenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,3-Dichlorobenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@5

T183752-08 (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

1,4-Dichlorobenzene	ND	4.9	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Dichlorodifluoromethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloroethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
cis-1,2-Dichloroethene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
trans-1,2-Dichloroethene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloropropane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,3-Dichloropropane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
2,2-Dichloropropane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloropropene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
cis-1,3-Dichloropropene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
trans-1,3-Dichloropropene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Hexachlorobutadiene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Isopropylbenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
p-Isopropyltoluene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Methylene chloride	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Naphthalene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
n-Propylbenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Styrene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,1,2,2-Tetrachloroethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,1,1,2-Tetrachloroethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Tetrachloroethene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichlorobenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,2,4-Trichlorobenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,1,2-Trichloroethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,1,1-Trichloroethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Trichloroethene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Trichlorofluoromethane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichloropropane	ND	4.9	"	"	"	"	"	"	M-02, 5035R
1,3,5-Trimethylbenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@5

T183752-08 (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

1,2,4-Trimethylbenzene	ND	4.9	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Vinyl chloride	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Benzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Toluene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Ethylbenzene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
m,p-Xylene	ND	9.7	"	"	"	"	"	"	M-02, 5035R
o-Xylene	ND	4.9	"	"	"	"	"	"	M-02, 5035R
Surrogate: Toluene-d8		98.6 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		104 %	85.9-114		"	"	"	"	5035R
Surrogate: Dibromofluoromethane		115 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T183752-08 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"

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B2@5

T183752-08 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	60.6 %		15-121		"	"	"	"
Surrogate: Phenol-d6	59.1 %		24-113		"	"	"	"
Surrogate: Nitrobenzene-d5	68.1 %		21.3-119		"	"	"	"
Surrogate: 2-Fluorobiphenyl	74.7 %		32.4-102		"	"	"	"
Surrogate: 2,4,6-Tribromophenol	90.0 %		18.1-105		"	"	"	"
Surrogate: Terphenyl-d14	86.0 %		29.1-130		"	"	"	"

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Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@10

T183752-09 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

5035R

C4-C12 (GRO)	ND	510	ug/kg	1	8121929	12/19/18	12/27/18	EPA 8015B/5035	
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Surrogate: <i>a,a,a-Trifluorotoluene</i>	82.3 %	65-135	"	"	"	"	"	"	
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Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: <i>p-Terphenyl</i>	91.1 %	65-135	"	"	"	"	"	"	
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Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	91	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	14	2.0	"	"	"	"	"	"	
Copper	28	1.0	"	"	"	"	"	"	
Lead	6.9	3.0	"	"	"	"	"	"	
Molybdenum	5.5	5.0	"	"	"	"	"	"	
Nickel	24	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	34	5.0	"	"	"	"	"	"	
Zinc	64	1.0	"	"	"	"	"	"	

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T183752-09 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121933	12/19/18	12/20/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

93.4 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

107 %

35-140

"

"

"

"

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T183752-09 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		71.4 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		68.7 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.6	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Bromochloromethane	ND	5.6	"	"	"	"	"	"	
Bromodichloromethane	ND	5.6	"	"	"	"	"	"	
Bromoform	ND	5.6	"	"	"	"	"	"	
Bromomethane	ND	5.6	"	"	"	"	"	"	
n-Butylbenzene	ND	5.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.6	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	"	"	"	"	"	"	
Chloroethane	ND	5.6	"	"	"	"	"	"	
Chloroform	ND	5.6	"	"	"	"	"	"	
Chloromethane	ND	5.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.6	"	"	"	"	"	"	
Dibromochloromethane	ND	5.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.6	"	"	"	"	"	"	
Dibromomethane	ND	5.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@10

T183752-09 (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

1,4-Dichlorobenzene	ND	5.6	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.6	"	"	"	"	"	"	
Isopropylbenzene	ND	5.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.6	"	"	"	"	"	"	
Methylene chloride	ND	5.6	"	"	"	"	"	"	
Naphthalene	ND	5.6	"	"	"	"	"	"	
n-Propylbenzene	ND	5.6	"	"	"	"	"	"	
Styrene	ND	5.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	
Tetrachloroethene	ND	5.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.6	"	"	"	"	"	"	

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T183752-09 (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

1,2,4-Trimethylbenzene	ND	5.6	ug/kg	1	8121925	12/19/18	12/22/18	EPA 8260B/5035	
Vinyl chloride	ND	5.6	"	"	"	"	"	"	
Benzene	ND	5.6	"	"	"	"	"	"	
Toluene	ND	5.6	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	"	"	"	"	"	"	
m,p-Xylene	ND	11	"	"	"	"	"	"	
o-Xylene	ND	5.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.3 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T183752-09 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"

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T183752-09 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	55.8 %		15-121		"	"	"	"
Surrogate: Phenol-d6	56.3 %		24-113		"	"	"	"
Surrogate: Nitrobenzene-d5	60.2 %		21.3-119		"	"	"	"
Surrogate: 2-Fluorobiphenyl	67.7 %		32.4-102		"	"	"	"
Surrogate: 2,4,6-Tribromophenol	82.9 %		18.1-105		"	"	"	"
Surrogate: Terphenyl-d14	86.4 %		29.1-130		"	"	"	"

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Project Manager: Derrick Willis

Reported:
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T183752-10 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	510	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		76.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		89.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/26/18	"	
Arsenic	ND	5.0	"	"	"	"	12/26/18	"	
Barium	60	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	14	2.0	"	"	"	"	"	"	
Copper	27	1.0	"	"	"	"	12/26/18	"	
Lead	6.1	3.0	"	"	"	"	12/26/18	"	
Molybdenum	8.4	5.0	"	"	"	"	"	"	
Nickel	38	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	33	5.0	"	"	"	"	12/26/18	"	
Zinc	57	1.0	"	"	"	"	12/26/18	"	

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B2@15
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

M-02

Bromobenzene	ND	5.3	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Bromochloromethane	ND	5.3	"	"	"	"	"	"	5035R
Bromodichloromethane	ND	5.3	"	"	"	"	"	"	5035R
Bromoform	ND	5.3	"	"	"	"	"	"	5035R
Bromomethane	ND	5.3	"	"	"	"	"	"	5035R
n-Butylbenzene	ND	5.3	"	"	"	"	"	"	5035R
sec-Butylbenzene	ND	5.3	"	"	"	"	"	"	5035R
tert-Butylbenzene	ND	5.3	"	"	"	"	"	"	5035R
Carbon tetrachloride	ND	5.3	"	"	"	"	"	"	5035R
Chlorobenzene	ND	5.3	"	"	"	"	"	"	5035R
Chloroethane	ND	5.3	"	"	"	"	"	"	5035R
Chloroform	ND	5.3	"	"	"	"	"	"	5035R
Chloromethane	ND	5.3	"	"	"	"	"	"	5035R
2-Chlorotoluene	ND	5.3	"	"	"	"	"	"	5035R
4-Chlorotoluene	ND	5.3	"	"	"	"	"	"	5035R
Dibromochloromethane	ND	5.3	"	"	"	"	"	"	5035R
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	5035R
1,2-Dibromoethane (EDB)	ND	5.3	"	"	"	"	"	"	5035R
Dibromomethane	ND	5.3	"	"	"	"	"	"	5035R
1,2-Dichlorobenzene	ND	5.3	"	"	"	"	"	"	5035R
1,3-Dichlorobenzene	ND	5.3	"	"	"	"	"	"	5035R
1,4-Dichlorobenzene	ND	5.3	"	"	"	"	"	"	5035R
Dichlorodifluoromethane	ND	5.3	"	"	"	"	"	"	5035R
1,1-Dichloroethane	ND	5.3	"	"	"	"	"	"	5035R
1,2-Dichloroethane	ND	5.3	"	"	"	"	"	"	5035R
1,1-Dichloroethene	ND	5.3	"	"	"	"	"	"	5035R
cis-1,2-Dichloroethene	ND	5.3	"	"	"	"	"	"	5035R
trans-1,2-Dichloroethene	ND	5.3	"	"	"	"	"	"	5035R

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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

M-02

1,2-Dichloropropane	ND	5.3	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
1,3-Dichloropropane	ND	5.3	"	"	"	"	"	"	5035R
2,2-Dichloropropane	ND	5.3	"	"	"	"	"	"	5035R
1,1-Dichloropropene	ND	5.3	"	"	"	"	"	"	5035R
cis-1,3-Dichloropropene	ND	5.3	"	"	"	"	"	"	5035R
trans-1,3-Dichloropropene	ND	5.3	"	"	"	"	"	"	5035R
Hexachlorobutadiene	ND	5.3	"	"	"	"	"	"	5035R
Isopropylbenzene	ND	5.3	"	"	"	"	"	"	5035R
p-Isopropyltoluene	ND	5.3	"	"	"	"	"	"	5035R
Methylene chloride	ND	5.3	"	"	"	"	"	"	5035R
Naphthalene	ND	5.3	"	"	"	"	"	"	5035R
n-Propylbenzene	ND	5.3	"	"	"	"	"	"	5035R
Styrene	ND	5.3	"	"	"	"	"	"	5035R
1,1,2,2-Tetrachloroethane	ND	5.3	"	"	"	"	"	"	5035R
1,1,1,2-Tetrachloroethane	ND	5.3	"	"	"	"	"	"	5035R
Tetrachloroethene	ND	5.3	"	"	"	"	"	"	5035R
1,2,3-Trichlorobenzene	ND	5.3	"	"	"	"	"	"	5035R
1,2,4-Trichlorobenzene	ND	5.3	"	"	"	"	"	"	5035R
1,1,2-Trichloroethane	ND	5.3	"	"	"	"	"	"	5035R
1,1,1-Trichloroethane	ND	5.3	"	"	"	"	"	"	5035R
Trichloroethene	ND	5.3	"	"	"	"	"	"	5035R
Trichlorofluoromethane	ND	5.3	"	"	"	"	"	"	5035R
1,2,3-Trichloropropane	ND	5.3	"	"	"	"	"	"	5035R
1,3,5-Trimethylbenzene	ND	5.3	"	"	"	"	"	"	5035R
1,2,4-Trimethylbenzene	ND	5.3	"	"	"	"	"	"	5035R
Vinyl chloride	ND	5.3	"	"	"	"	"	"	5035R
Benzene	ND	5.3	"	"	"	"	"	"	5035R
Toluene	ND	5.3	"	"	"	"	"	"	5035R
Ethylbenzene	ND	5.3	"	"	"	"	"	"	5035R
m,p-Xylene	ND	11	"	"	"	"	"	"	5035R
o-Xylene	ND	5.3	"	"	"	"	"	"	5035R

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T183752-10 (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

M-02

Surrogate: Toluene-d8	98.1 %	76.1-127	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Surrogate: 4-Bromofluorobenzene	96.1 %	85.9-114	"	"	"	"	5035R
Surrogate: Dibromofluoromethane	109 %	77.8-142	"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Aniline	ND	300	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@15

T183752-10 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B2@15

T183752-10 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Nitroaniline	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	48.5 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	48.8 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	57.2 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	61.9 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	72.6 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	70.4 %	29.1-130	"	"	"	"	"	"

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Reported:
01/09/19 15:06

B3@1

T183752-11 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	480	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		71.0 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	220	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		90.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	12	2.0	"	"	"	"	"	"	
Copper	27	1.0	"	"	"	"	"	"	
Lead	10	3.0	"	"	"	"	"	"	
Molybdenum	5.4	5.0	"	"	"	"	"	"	
Nickel	32	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	67	1.0	"	"	"	"	"	"	

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	250	ug/kg	50	8121933	12/19/18	12/20/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	250	"	"	"	"	"	"	R-07
beta-BHC	ND	250	"	"	"	"	"	"	R-07
delta-BHC	ND	250	"	"	"	"	"	"	R-07
Heptachlor	ND	250	"	"	"	"	"	"	R-07
Aldrin	ND	250	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	250	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	250	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	250	"	"	"	"	"	"	R-07
Endosulfan I	ND	250	"	"	"	"	"	"	R-07
4,4'-DDE	ND	250	"	"	"	"	"	"	R-07
Dieldrin	ND	250	"	"	"	"	"	"	R-07
Endrin	ND	250	"	"	"	"	"	"	R-07
4,4'-DDD	ND	250	"	"	"	"	"	"	R-07
Endosulfan II	ND	250	"	"	"	"	"	"	R-07
4,4'-DDT	ND	250	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	250	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	250	"	"	"	"	"	"	R-07
Methoxychlor	ND	250	"	"	"	"	"	"	R-07
Endrin ketone	ND	250	"	"	"	"	"	"	R-07
Toxaphene	ND	1000	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

92.9 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

86.6 %

35-140

"

"

"

"

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B3@1

T183752-11 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		89.1 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		73.5 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

M-02

Bromobenzene	ND	4.9	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Bromochloromethane	ND	4.9	"	"	"	"	"	"	5035R
Bromodichloromethane	ND	4.9	"	"	"	"	"	"	5035R
Bromoform	ND	4.9	"	"	"	"	"	"	5035R
Bromomethane	ND	4.9	"	"	"	"	"	"	5035R
n-Butylbenzene	ND	4.9	"	"	"	"	"	"	5035R
sec-Butylbenzene	ND	4.9	"	"	"	"	"	"	5035R
tert-Butylbenzene	ND	4.9	"	"	"	"	"	"	5035R
Carbon tetrachloride	ND	4.9	"	"	"	"	"	"	5035R
Chlorobenzene	ND	4.9	"	"	"	"	"	"	5035R
Chloroethane	ND	4.9	"	"	"	"	"	"	5035R
Chloroform	ND	4.9	"	"	"	"	"	"	5035R
Chloromethane	ND	4.9	"	"	"	"	"	"	5035R
2-Chlorotoluene	ND	4.9	"	"	"	"	"	"	5035R
4-Chlorotoluene	ND	4.9	"	"	"	"	"	"	5035R
Dibromochloromethane	ND	4.9	"	"	"	"	"	"	5035R
1,2-Dibromo-3-chloropropane	ND	9.8	"	"	"	"	"	"	5035R
1,2-Dibromoethane (EDB)	ND	4.9	"	"	"	"	"	"	5035R
Dibromomethane	ND	4.9	"	"	"	"	"	"	5035R
1,2-Dichlorobenzene	ND	4.9	"	"	"	"	"	"	5035R
1,3-Dichlorobenzene	ND	4.9	"	"	"	"	"	"	5035R

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B3@1

T183752-11 (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

M-02

1,4-Dichlorobenzene	ND	4.9	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Dichlorodifluoromethane	ND	4.9	"	"	"	"	"	"	5035R
1,1-Dichloroethane	ND	4.9	"	"	"	"	"	"	5035R
1,2-Dichloroethane	ND	4.9	"	"	"	"	"	"	5035R
1,1-Dichloroethene	ND	4.9	"	"	"	"	"	"	5035R
cis-1,2-Dichloroethene	ND	4.9	"	"	"	"	"	"	5035R
trans-1,2-Dichloroethene	ND	4.9	"	"	"	"	"	"	5035R
1,2-Dichloropropane	ND	4.9	"	"	"	"	"	"	5035R
1,3-Dichloropropane	ND	4.9	"	"	"	"	"	"	5035R
2,2-Dichloropropane	ND	4.9	"	"	"	"	"	"	5035R
1,1-Dichloropropene	ND	4.9	"	"	"	"	"	"	5035R
cis-1,3-Dichloropropene	ND	4.9	"	"	"	"	"	"	5035R
trans-1,3-Dichloropropene	ND	4.9	"	"	"	"	"	"	5035R
Hexachlorobutadiene	ND	4.9	"	"	"	"	"	"	5035R
Isopropylbenzene	ND	4.9	"	"	"	"	"	"	5035R
p-Isopropyltoluene	ND	4.9	"	"	"	"	"	"	5035R
Methylene chloride	ND	4.9	"	"	"	"	"	"	5035R
Naphthalene	ND	4.9	"	"	"	"	"	"	5035R
n-Propylbenzene	ND	4.9	"	"	"	"	"	"	5035R
Styrene	ND	4.9	"	"	"	"	"	"	5035R
1,1,2,2-Tetrachloroethane	ND	4.9	"	"	"	"	"	"	5035R
1,1,1,2-Tetrachloroethane	ND	4.9	"	"	"	"	"	"	5035R
Tetrachloroethene	ND	4.9	"	"	"	"	"	"	5035R
1,2,3-Trichlorobenzene	ND	4.9	"	"	"	"	"	"	5035R
1,2,4-Trichlorobenzene	ND	4.9	"	"	"	"	"	"	5035R
1,1,2-Trichloroethane	ND	4.9	"	"	"	"	"	"	5035R
1,1,1-Trichloroethane	ND	4.9	"	"	"	"	"	"	5035R
Trichloroethene	ND	4.9	"	"	"	"	"	"	5035R
Trichlorofluoromethane	ND	4.9	"	"	"	"	"	"	5035R
1,2,3-Trichloropropane	ND	4.9	"	"	"	"	"	"	5035R
1,3,5-Trimethylbenzene	ND	4.9	"	"	"	"	"	"	5035R

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B3@1

T183752-11 (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

M-02

1,2,4-Trimethylbenzene	ND	4.9	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Vinyl chloride	ND	4.9	"	"	"	"	"	"	5035R
Benzene	ND	4.9	"	"	"	"	"	"	5035R
Toluene	ND	4.9	"	"	"	"	"	"	5035R
Ethylbenzene	22	4.9	"	"	"	"	"	"	5035R
m,p-Xylene	110	9.8	"	"	"	"	"	"	5035R
o-Xylene	45	4.9	"	"	"	"	"	"	5035R
Surrogate: Toluene-d8		91.3 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		87.0 %	85.9-114		"	"	"	"	5035R
Surrogate: Dibromofluoromethane		117 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Phenol	ND	1000000	"	"	"	"	"	"	R-07
Aniline	ND	300000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	1000000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	300000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthene	ND	300000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	300000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Pyrene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	300000	"	"	"	"	"	"	R-07
Anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	300000	"	"	"	"	"	"	R-07

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@1

T183752-11 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	300000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	300000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	300000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Chrysene	ND	300000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	300000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	300000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	300000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	1000000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	1000000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	300000	"	"	"	"	"	"	R-07
Fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Fluorene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	1500000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	1000000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	300000	"	"	"	"	"	"	R-07

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Isophorone	ND	300000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
Naphthalene	ND	300000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	1000000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	300000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
Phenanthrene	ND	300000	"	"	"	"	"	"	R-07
Azobenzene	ND	300000	"	"	"	"	"	"	R-07
Pyridine	ND	300000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		%	15-121		"	"	"	"	S-01
Surrogate: Phenol-d6		%	24-113		"	"	"	"	S-01
Surrogate: Nitrobenzene-d5		%	21.3-119		"	"	"	"	S-01
Surrogate: 2-Fluorobiphenyl		%	32.4-102		"	"	"	"	S-01
Surrogate: 2,4,6-Tribromophenol		%	18.1-105		"	"	"	"	S-01
Surrogate: Terphenyl-d14		%	29.1-130		"	"	"	"	S-01

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T183752-12 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	510	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		67.2 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		90.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/26/18	"	
Arsenic	ND	5.0	"	"	"	"	12/26/18	"	
Barium	130	1.0	"	"	"	"	12/26/18	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	9.7	2.0	"	"	"	"	"	"	
Copper	34	1.0	"	"	"	"	12/26/18	"	
Lead	8.0	3.0	"	"	"	"	12/26/18	"	
Molybdenum	6.2	5.0	"	"	"	"	"	"	
Nickel	22	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	40	5.0	"	"	"	"	12/26/18	"	
Zinc	73	1.0	"	"	"	"	"	"	

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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121933	12/19/18	12/20/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

84.0 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

96.0 % 35-140

" " " "

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		65.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		69.8 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

M-02

Bromobenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Bromochloromethane	ND	5.2	"	"	"	"	"	"	5035R
Bromodichloromethane	ND	5.2	"	"	"	"	"	"	5035R
Bromoform	ND	5.2	"	"	"	"	"	"	5035R
Bromomethane	ND	5.2	"	"	"	"	"	"	5035R
n-Butylbenzene	ND	5.2	"	"	"	"	"	"	5035R
sec-Butylbenzene	ND	5.2	"	"	"	"	"	"	5035R
tert-Butylbenzene	ND	5.2	"	"	"	"	"	"	5035R
Carbon tetrachloride	ND	5.2	"	"	"	"	"	"	5035R
Chlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
Chloroethane	ND	5.2	"	"	"	"	"	"	5035R
Chloroform	ND	5.2	"	"	"	"	"	"	5035R
Chloromethane	ND	5.2	"	"	"	"	"	"	5035R
2-Chlorotoluene	ND	5.2	"	"	"	"	"	"	5035R
4-Chlorotoluene	ND	5.2	"	"	"	"	"	"	5035R
Dibromochloromethane	ND	5.2	"	"	"	"	"	"	5035R
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	5035R
1,2-Dibromoethane (EDB)	ND	5.2	"	"	"	"	"	"	5035R
Dibromomethane	ND	5.2	"	"	"	"	"	"	5035R
1,2-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
1,3-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R

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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-02

1,4-Dichlorobenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Dichlorodifluoromethane	ND	5.2	"	"	"	"	"	"	5035R
1,1-Dichloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,2-Dichloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,1-Dichloroethene	ND	5.2	"	"	"	"	"	"	5035R
cis-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	5035R
trans-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	5035R
1,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	5035R
1,3-Dichloropropane	ND	5.2	"	"	"	"	"	"	5035R
2,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	5035R
1,1-Dichloropropene	ND	5.2	"	"	"	"	"	"	5035R
cis-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	5035R
trans-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	5035R
Hexachlorobutadiene	ND	5.2	"	"	"	"	"	"	5035R
Isopropylbenzene	ND	5.2	"	"	"	"	"	"	5035R
p-Isopropyltoluene	ND	5.2	"	"	"	"	"	"	5035R
Methylene chloride	ND	5.2	"	"	"	"	"	"	5035R
Naphthalene	ND	5.2	"	"	"	"	"	"	5035R
n-Propylbenzene	ND	5.2	"	"	"	"	"	"	5035R
Styrene	ND	5.2	"	"	"	"	"	"	5035R
1,1,2,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,1,1,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	5035R
Tetrachloroethene	ND	5.2	"	"	"	"	"	"	5035R
1,2,3-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
1,2,4-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
1,1,2-Trichloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,1,1-Trichloroethane	ND	5.2	"	"	"	"	"	"	5035R
Trichloroethene	ND	5.2	"	"	"	"	"	"	5035R
Trichlorofluoromethane	ND	5.2	"	"	"	"	"	"	5035R
1,2,3-Trichloropropane	ND	5.2	"	"	"	"	"	"	5035R
1,3,5-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	5035R

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T183752-12 (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

M-02

1,2,4-Trimethylbenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Vinyl chloride	ND	5.2	"	"	"	"	"	"	5035R
Benzene	ND	5.2	"	"	"	"	"	"	5035R
Toluene	ND	5.2	"	"	"	"	"	"	5035R
Ethylbenzene	ND	5.2	"	"	"	"	"	"	5035R
m,p-Xylene	ND	10	"	"	"	"	"	"	5035R
o-Xylene	ND	5.2	"	"	"	"	"	"	5035R
Surrogate: Toluene-d8		96.6 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		95.4 %	85.9-114		"	"	"	"	5035R
Surrogate: Dibromofluoromethane		112 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
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Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@5

T183752-12 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	51.7 %	15-121			"	"	"	"
Surrogate: Phenol-d6	50.7 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	56.6 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	63.1 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	79.3 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	76.6 %	29.1-130			"	"	"	"

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Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@10

T183752-13 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	460	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		65.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		95.5 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	6.2	5.0	"	"	"	"	"	"	
Barium	120	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	17	2.0	"	"	"	"	"	"	
Cobalt	15	2.0	"	"	"	"	"	"	
Copper	40	1.0	"	"	"	"	"	"	
Lead	8.3	3.0	"	"	"	"	"	"	
Molybdenum	14	5.0	"	"	"	"	"	"	
Nickel	43	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	45	5.0	"	"	"	"	"	"	
Zinc	84	1.0	"	"	"	"	"	"	

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B3@10

T183752-13 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121933	12/19/18	12/20/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

86.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

99.0 % 35-140

" " " "

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01/09/19 15:06

B3@10
T183752-13 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		74.2 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		70.9 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

M-02

Bromobenzene	ND	6.4	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Bromochloromethane	ND	6.4	"	"	"	"	"	"	5035R
Bromodichloromethane	ND	6.4	"	"	"	"	"	"	5035R
Bromoform	ND	6.4	"	"	"	"	"	"	5035R
Bromomethane	ND	6.4	"	"	"	"	"	"	5035R
n-Butylbenzene	ND	6.4	"	"	"	"	"	"	5035R
sec-Butylbenzene	ND	6.4	"	"	"	"	"	"	5035R
tert-Butylbenzene	ND	6.4	"	"	"	"	"	"	5035R
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	5035R
Chlorobenzene	ND	6.4	"	"	"	"	"	"	5035R
Chloroethane	ND	6.4	"	"	"	"	"	"	5035R
Chloroform	ND	6.4	"	"	"	"	"	"	5035R
Chloromethane	ND	6.4	"	"	"	"	"	"	5035R
2-Chlorotoluene	ND	6.4	"	"	"	"	"	"	5035R
4-Chlorotoluene	ND	6.4	"	"	"	"	"	"	5035R
Dibromochloromethane	ND	6.4	"	"	"	"	"	"	5035R
1,2-Dibromo-3-chloropropane	ND	13	"	"	"	"	"	"	5035R
1,2-Dibromoethane (EDB)	ND	6.4	"	"	"	"	"	"	5035R
Dibromomethane	ND	6.4	"	"	"	"	"	"	5035R
1,2-Dichlorobenzene	ND	6.4	"	"	"	"	"	"	5035R
1,3-Dichlorobenzene	ND	6.4	"	"	"	"	"	"	5035R

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B3@10
T183752-13 (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

M-02

1,4-Dichlorobenzene	ND	6.4	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Dichlorodifluoromethane	ND	6.4	"	"	"	"	"	"	5035R
1,1-Dichloroethane	ND	6.4	"	"	"	"	"	"	5035R
1,2-Dichloroethane	ND	6.4	"	"	"	"	"	"	5035R
1,1-Dichloroethene	ND	6.4	"	"	"	"	"	"	5035R
cis-1,2-Dichloroethene	ND	6.4	"	"	"	"	"	"	5035R
trans-1,2-Dichloroethene	ND	6.4	"	"	"	"	"	"	5035R
1,2-Dichloropropane	ND	6.4	"	"	"	"	"	"	5035R
1,3-Dichloropropane	ND	6.4	"	"	"	"	"	"	5035R
2,2-Dichloropropane	ND	6.4	"	"	"	"	"	"	5035R
1,1-Dichloropropene	ND	6.4	"	"	"	"	"	"	5035R
cis-1,3-Dichloropropene	ND	6.4	"	"	"	"	"	"	5035R
trans-1,3-Dichloropropene	ND	6.4	"	"	"	"	"	"	5035R
Hexachlorobutadiene	ND	6.4	"	"	"	"	"	"	5035R
Isopropylbenzene	ND	6.4	"	"	"	"	"	"	5035R
p-Isopropyltoluene	ND	6.4	"	"	"	"	"	"	5035R
Methylene chloride	ND	6.4	"	"	"	"	"	"	5035R
Naphthalene	ND	6.4	"	"	"	"	"	"	5035R
n-Propylbenzene	ND	6.4	"	"	"	"	"	"	5035R
Styrene	ND	6.4	"	"	"	"	"	"	5035R
1,1,2,2-Tetrachloroethane	ND	6.4	"	"	"	"	"	"	5035R
1,1,1,2-Tetrachloroethane	ND	6.4	"	"	"	"	"	"	5035R
Tetrachloroethene	ND	6.4	"	"	"	"	"	"	5035R
1,2,3-Trichlorobenzene	ND	6.4	"	"	"	"	"	"	5035R
1,2,4-Trichlorobenzene	ND	6.4	"	"	"	"	"	"	5035R
1,1,2-Trichloroethane	ND	6.4	"	"	"	"	"	"	5035R
1,1,1-Trichloroethane	ND	6.4	"	"	"	"	"	"	5035R
Trichloroethene	ND	6.4	"	"	"	"	"	"	5035R
Trichlorofluoromethane	ND	6.4	"	"	"	"	"	"	5035R
1,2,3-Trichloropropane	ND	6.4	"	"	"	"	"	"	5035R
1,3,5-Trimethylbenzene	ND	6.4	"	"	"	"	"	"	5035R

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B3@10
T183752-13 (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

M-02

1,2,4-Trimethylbenzene	ND	6.4	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Vinyl chloride	ND	6.4	"	"	"	"	"	"	5035R
Benzene	ND	6.4	"	"	"	"	"	"	5035R
Toluene	ND	6.4	"	"	"	"	"	"	5035R
Ethylbenzene	ND	6.4	"	"	"	"	"	"	5035R
m,p-Xylene	ND	13	"	"	"	"	"	"	5035R
o-Xylene	ND	6.4	"	"	"	"	"	"	5035R
Surrogate: Toluene-d8		95.6 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		98.2 %	85.9-114		"	"	"	"	5035R
Surrogate: Dibromofluoromethane		117 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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B3@10

T183752-13 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@10

T183752-13 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	58.9 %	15-121			"	"	"	"
Surrogate: Phenol-d6	62.4 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	69.9 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	78.8 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	93.0 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	93.5 %	29.1-130			"	"	"	"

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@15

T183752-14 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	520	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		60.9 %	65-135		"	"	"	"	S-04

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		92.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	7.4	5.0	"	"	"	"	"	"	
Barium	85	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	17	2.0	"	"	"	"	"	"	
Cobalt	18	2.0	"	"	"	"	"	"	
Copper	31	1.0	"	"	"	"	"	"	
Lead	7.4	3.0	"	"	"	"	"	"	
Molybdenum	10	5.0	"	"	"	"	"	"	
Nickel	46	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	43	5.0	"	"	"	"	"	"	
Zinc	83	1.0	"	"	"	"	"	"	

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Project: Holland Sunset
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Project Manager: Derrick Willis

Reported:
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B3@15
T183752-14 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Bromochloromethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Bromodichloromethane	ND	5.2	"	"	"	"	"	"	5035R, M-02
Bromoform	ND	5.2	"	"	"	"	"	"	5035R, M-02
Bromomethane	ND	5.2	"	"	"	"	"	"	5035R, M-02
n-Butylbenzene	ND	5.2	"	"	"	"	"	"	5035R, M-02
sec-Butylbenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
tert-Butylbenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Carbon tetrachloride	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Chlorobenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Chloroethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Chloroform	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Chloromethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
2-Chlorotoluene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
4-Chlorotoluene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Dibromochloromethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromoethane (EDB)	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Dibromomethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,2-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,3-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,4-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Dichlorodifluoromethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloroethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
cis-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
trans-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	M-02, 5035R

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@15
T183752-14 (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-Dichloropropane	ND	5.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
1,3-Dichloropropane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
2,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloropropene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
cis-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
trans-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Hexachlorobutadiene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Isopropylbenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
p-Isopropyltoluene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Methylene chloride	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Naphthalene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
n-Propylbenzene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
Styrene	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,1,2,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	M-02, 5035R
1,1,1,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	5035R, M-02
Tetrachloroethene	ND	5.2	"	"	"	"	"	"	5035R, M-02
1,2,3-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R, M-02
1,2,4-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R, M-02
1,1,2-Trichloroethane	ND	5.2	"	"	"	"	"	"	5035R, M-02
1,1,1-Trichloroethane	ND	5.2	"	"	"	"	"	"	5035R, M-02
Trichloroethene	ND	5.2	"	"	"	"	"	"	5035R, M-02
Trichlorofluoromethane	ND	5.2	"	"	"	"	"	"	5035R, M-02
1,2,3-Trichloropropane	ND	5.2	"	"	"	"	"	"	5035R, M-02
1,3,5-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	5035R, M-02
1,2,4-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	5035R, M-02
Vinyl chloride	ND	5.2	"	"	"	"	"	"	5035R, M-02
Benzene	ND	5.2	"	"	"	"	"	"	5035R, M-02
Toluene	ND	5.2	"	"	"	"	"	"	5035R, M-02
Ethylbenzene	7.1	5.2	"	"	"	"	"	"	5035R, M-02
m,p-Xylene	ND	10	"	"	"	"	"	"	5035R, M-02
o-Xylene	ND	5.2	"	"	"	"	"	"	5035R, M-02

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@15

T183752-14 (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

Surrogate: Toluene-d8	98.8 %	76.1-127	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Surrogate: 4-Bromofluorobenzene	103 %	85.9-114	"	"	"	"	5035R
Surrogate: Dibromofluoromethane	115 %	77.8-142	"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Aniline	ND	300	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@15

T183752-14 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

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Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B3@15

T183752-14 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Nitroaniline	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	62.5 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	59.5 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	69.0 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	74.2 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	88.8 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	91.0 %	29.1-130	"	"	"	"	"	"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@1

T183752-15 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	520	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		60.1 %	65-135		"	"	"	"	S-04

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	450	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		92.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	320	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	11	3.0	"	"	"	"	"	"	
Molybdenum	8.4	5.0	"	"	"	"	"	"	
Nickel	29	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	36	5.0	"	"	"	"	"	"	
Zinc	81	1.0	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@1

T183752-15 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	250	ug/kg	50	8121933	12/19/18	12/20/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	250	"	"	"	"	"	"	R-07
beta-BHC	ND	250	"	"	"	"	"	"	R-07
delta-BHC	ND	250	"	"	"	"	"	"	R-07
Heptachlor	ND	250	"	"	"	"	"	"	R-07
Aldrin	ND	250	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	250	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	250	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	250	"	"	"	"	"	"	R-07
Endosulfan I	ND	250	"	"	"	"	"	"	R-07
4,4'-DDE	ND	250	"	"	"	"	"	"	R-07
Dieldrin	ND	250	"	"	"	"	"	"	R-07
Endrin	ND	250	"	"	"	"	"	"	R-07
4,4'-DDD	ND	250	"	"	"	"	"	"	R-07
Endosulfan II	ND	250	"	"	"	"	"	"	R-07
4,4'-DDT	ND	250	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	250	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	250	"	"	"	"	"	"	R-07
Methoxychlor	ND	250	"	"	"	"	"	"	R-07
Endrin ketone	ND	250	"	"	"	"	"	"	R-07
Toxaphene	ND	1000	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

102 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

85.1 % 35-140

" " " "

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T183752-15 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		79.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		71.5 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	6.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Bromochloromethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Bromodichloromethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Bromoform	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Bromomethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
n-Butylbenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
sec-Butylbenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
tert-Butylbenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Carbon tetrachloride	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Chlorobenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Chloroethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Chloroform	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Chloromethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
2-Chlorotoluene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
4-Chlorotoluene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Dibromochloromethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromoethane (EDB)	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Dibromomethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,2-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,3-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R

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Project Manager: Derrick Willis

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B4@1

T183752-15 (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

1,4-Dichlorobenzene	ND	6.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Dichlorodifluoromethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloroethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
cis-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
trans-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloropropane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,3-Dichloropropane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
2,2-Dichloropropane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloropropene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
cis-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
trans-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Hexachlorobutadiene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Isopropylbenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
p-Isopropyltoluene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Methylene chloride	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Naphthalene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
n-Propylbenzene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
Styrene	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,1,2,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	M-02, 5035R
1,1,1,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	5035R, M-02
Tetrachloroethene	ND	6.2	"	"	"	"	"	"	5035R, M-02
1,2,3-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	5035R, M-02
1,2,4-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	5035R, M-02
1,1,2-Trichloroethane	ND	6.2	"	"	"	"	"	"	5035R, M-02
1,1,1-Trichloroethane	ND	6.2	"	"	"	"	"	"	5035R, M-02
Trichloroethene	ND	6.2	"	"	"	"	"	"	5035R, M-02
Trichlorofluoromethane	ND	6.2	"	"	"	"	"	"	5035R, M-02
1,2,3-Trichloropropane	ND	6.2	"	"	"	"	"	"	5035R, M-02
1,3,5-Trimethylbenzene	ND	6.2	"	"	"	"	"	"	5035R, M-02

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@1

T183752-15 (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

1,2,4-Trimethylbenzene	ND	6.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R, M-02
Vinyl chloride	ND	6.2	"	"	"	"	"	"	5035R, M-02
Benzene	ND	6.2	"	"	"	"	"	"	5035R, M-02
Toluene	ND	6.2	"	"	"	"	"	"	5035R, M-02
Ethylbenzene	ND	6.2	"	"	"	"	"	"	5035R, M-02
m,p-Xylene	ND	12	"	"	"	"	"	"	5035R, M-02
o-Xylene	ND	6.2	"	"	"	"	"	"	5035R, M-02
Surrogate: Toluene-d8		95.0 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		85.7 %	85.9-114		"	"	"	"	5035R, S-GC
Surrogate: Dibromofluoromethane		122 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Aniline	ND	300000	"	"	"	"	"	"	R-07
Phenol	ND	1000000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	1000000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	300000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthene	ND	300000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	300000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Pyrene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	300000	"	"	"	"	"	"	R-07
Anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	300000	"	"	"	"	"	"	R-07

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T183752-15 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	300000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	300000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	300000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Chrysene	ND	300000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	300000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	300000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	300000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	1000000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	1000000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	300000	"	"	"	"	"	"	R-07
Fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Fluorene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	1500000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	1000000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	300000	"	"	"	"	"	"	R-07

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300000	ug/kg	1000	8122018	12/20/18	12/26/18	EPA 8270C	R-07
Isophorone	ND	300000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
Naphthalene	ND	300000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	1000000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	300000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
Phenanthrene	ND	300000	"	"	"	"	"	"	R-07
Azobenzene	ND	300000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Pyridine	ND	300000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		%	15-121		"	"	"	"	S-01
Surrogate: Phenol-d6		%	24-113		"	"	"	"	S-01
Surrogate: Nitrobenzene-d5		%	21.3-119		"	"	"	"	S-01
Surrogate: 2-Fluorobiphenyl		%	32.4-102		"	"	"	"	S-01
Surrogate: 2,4,6-Tribromophenol		%	18.1-105		"	"	"	"	S-01
Surrogate: Terphenyl-d14		%	29.1-130		"	"	"	"	S-01

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T183752-16 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	620	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		61.5 %	65-135		"	"	"	"	S-04

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		95.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/26/18	"	
Arsenic	ND	5.0	"	"	"	"	12/26/18	"	
Barium	86	1.0	"	"	"	"	12/26/18	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	16	2.0	"	"	"	"	12/26/18	"	
Cobalt	11	2.0	"	"	"	"	12/26/18	"	
Copper	23	1.0	"	"	"	"	12/26/18	"	
Lead	6.6	3.0	"	"	"	"	12/26/18	"	
Molybdenum	5.6	5.0	"	"	"	"	"	"	
Nickel	21	2.0	"	"	"	"	12/26/18	"	
Selenium	ND	5.0	"	"	"	"	12/26/18	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	35	5.0	"	"	"	"	12/26/18	"	
Zinc	63	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@5

T183752-16 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121933	12/19/18	12/20/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.2 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

92.9 %

35-140

"

"

"

"

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B4@5

T183752-16 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		62.9 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		69.0 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	8.0	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Bromochloromethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Bromodichloromethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Bromoform	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Bromomethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
n-Butylbenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
sec-Butylbenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
tert-Butylbenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Carbon tetrachloride	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Chlorobenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Chloroethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Chloroform	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Chloromethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
2-Chlorotoluene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
4-Chlorotoluene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Dibromochloromethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromo-3-chloropropane	ND	16	"	"	"	"	"	"	M-02, 5035R
1,2-Dibromoethane (EDB)	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Dibromomethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,2-Dichlorobenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,3-Dichlorobenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R

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T183752-16 (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

1,4-Dichlorobenzene	ND	8.0	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Dichlorodifluoromethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloroethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloroethene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
cis-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,2-Dichloropropane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,3-Dichloropropane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
2,2-Dichloropropane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,1-Dichloropropene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
cis-1,3-Dichloropropene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
trans-1,3-Dichloropropene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Hexachlorobutadiene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Isopropylbenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
p-Isopropyltoluene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Methylene chloride	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Naphthalene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
n-Propylbenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Styrene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,1,2,2-Tetrachloroethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,1,1,2-Tetrachloroethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Tetrachloroethene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichlorobenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,2,4-Trichlorobenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,1,2-Trichloroethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,1,1-Trichloroethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Trichloroethene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Trichlorofluoromethane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,2,3-Trichloropropane	ND	8.0	"	"	"	"	"	"	M-02, 5035R
1,3,5-Trimethylbenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R

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Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@5

T183752-16 (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

1,2,4-Trimethylbenzene	ND	8.0	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	M-02, 5035R
Vinyl chloride	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Benzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Toluene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Ethylbenzene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
m,p-Xylene	ND	16	"	"	"	"	"	"	M-02, 5035R
o-Xylene	ND	8.0	"	"	"	"	"	"	M-02, 5035R
Surrogate: Toluene-d8		97.0 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		95.1 %	85.9-114		"	"	"	"	5035R
Surrogate: Dibromofluoromethane		109 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T183752-16 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"

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T183752-16 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8122018	12/20/18	12/26/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	58.0 %	15-121			"	"	"	"
Surrogate: Phenol-d6	57.4 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	64.3 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	71.0 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	84.9 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	86.5 %	29.1-130			"	"	"	"

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B4@10

T183752-17 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	490	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		61.7 %	65-135		"	"	"	"	S-04

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	110	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		89.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.5	5.0	"	"	"	"	"	"	
Barium	69	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/26/18	"	
Cadmium	ND	2.0	"	"	"	"	12/26/18	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	28	1.0	"	"	"	"	"	"	
Lead	8.1	3.0	"	"	"	"	"	"	
Molybdenum	7.3	5.0	"	"	"	"	"	"	
Nickel	25	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	36	5.0	"	"	"	"	"	"	
Zinc	71	1.0	"	"	"	"	"	"	

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B4@10

T183752-17 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	100	ug/kg	20	8121933	12/19/18	12/20/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	R-07
beta-BHC	ND	100	"	"	"	"	"	"	R-07
delta-BHC	ND	100	"	"	"	"	"	"	R-07
Heptachlor	ND	100	"	"	"	"	"	"	R-07
Aldrin	ND	100	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	100	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	100	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	100	"	"	"	"	"	"	R-07
Endosulfan I	ND	100	"	"	"	"	"	"	R-07
4,4'-DDE	ND	100	"	"	"	"	"	"	R-07
Dieldrin	ND	100	"	"	"	"	"	"	R-07
Endrin	ND	100	"	"	"	"	"	"	R-07
4,4'-DDD	ND	100	"	"	"	"	"	"	R-07
Endosulfan II	ND	100	"	"	"	"	"	"	R-07
4,4'-DDT	ND	100	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	100	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	100	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	100	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

86.2 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

103 %

35-140

"

"

"

"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@10

T183752-17 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8121934	12/19/18	12/26/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		71.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		71.2 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.5	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Bromochloromethane	ND	5.5	"	"	"	"	"	"	5035R
Bromodichloromethane	ND	5.5	"	"	"	"	"	"	5035R
Bromoform	ND	5.5	"	"	"	"	"	"	5035R
Bromomethane	ND	5.5	"	"	"	"	"	"	5035R
n-Butylbenzene	ND	5.5	"	"	"	"	"	"	5035R
sec-Butylbenzene	ND	5.5	"	"	"	"	"	"	5035R
tert-Butylbenzene	ND	5.5	"	"	"	"	"	"	5035R
Carbon tetrachloride	ND	5.5	"	"	"	"	"	"	5035R
Chlorobenzene	ND	5.5	"	"	"	"	"	"	5035R
Chloroethane	ND	5.5	"	"	"	"	"	"	5035R
Chloroform	ND	5.5	"	"	"	"	"	"	5035R
Chloromethane	ND	5.5	"	"	"	"	"	"	5035R
2-Chlorotoluene	ND	5.5	"	"	"	"	"	"	5035R
4-Chlorotoluene	ND	5.5	"	"	"	"	"	"	5035R
Dibromochloromethane	ND	5.5	"	"	"	"	"	"	5035R
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	5035R
1,2-Dibromoethane (EDB)	ND	5.5	"	"	"	"	"	"	5035R
Dibromomethane	ND	5.5	"	"	"	"	"	"	5035R
1,2-Dichlorobenzene	ND	5.5	"	"	"	"	"	"	5035R
1,3-Dichlorobenzene	ND	5.5	"	"	"	"	"	"	5035R

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T183752-17 (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

1,4-Dichlorobenzene	ND	5.5	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Dichlorodifluoromethane	ND	5.5	"	"	"	"	"	"	5035R
1,1-Dichloroethane	ND	5.5	"	"	"	"	"	"	5035R
1,2-Dichloroethane	ND	5.5	"	"	"	"	"	"	5035R
1,1-Dichloroethene	ND	5.5	"	"	"	"	"	"	5035R
cis-1,2-Dichloroethene	ND	5.5	"	"	"	"	"	"	5035R
trans-1,2-Dichloroethene	ND	5.5	"	"	"	"	"	"	5035R
1,2-Dichloropropane	ND	5.5	"	"	"	"	"	"	5035R
1,3-Dichloropropane	ND	5.5	"	"	"	"	"	"	5035R
2,2-Dichloropropane	ND	5.5	"	"	"	"	"	"	5035R
1,1-Dichloropropene	ND	5.5	"	"	"	"	"	"	5035R
cis-1,3-Dichloropropene	ND	5.5	"	"	"	"	"	"	5035R
trans-1,3-Dichloropropene	ND	5.5	"	"	"	"	"	"	5035R
Hexachlorobutadiene	ND	5.5	"	"	"	"	"	"	5035R
Isopropylbenzene	ND	5.5	"	"	"	"	"	"	5035R
p-Isopropyltoluene	ND	5.5	"	"	"	"	"	"	5035R
Methylene chloride	ND	5.5	"	"	"	"	"	"	5035R
Naphthalene	ND	5.5	"	"	"	"	"	"	5035R
n-Propylbenzene	ND	5.5	"	"	"	"	"	"	5035R
Styrene	ND	5.5	"	"	"	"	"	"	5035R
1,1,2,2-Tetrachloroethane	ND	5.5	"	"	"	"	"	"	5035R
1,1,1,2-Tetrachloroethane	ND	5.5	"	"	"	"	"	"	5035R
Tetrachloroethene	ND	5.5	"	"	"	"	"	"	5035R
1,2,3-Trichlorobenzene	ND	5.5	"	"	"	"	"	"	5035R
1,2,4-Trichlorobenzene	ND	5.5	"	"	"	"	"	"	5035R
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	5035R
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	5035R
Trichloroethene	ND	5.5	"	"	"	"	"	"	5035R
Trichlorofluoromethane	ND	5.5	"	"	"	"	"	"	5035R
1,2,3-Trichloropropane	ND	5.5	"	"	"	"	"	"	5035R
1,3,5-Trimethylbenzene	ND	5.5	"	"	"	"	"	"	5035R

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T183752-17 (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

1,2,4-Trimethylbenzene	6.2	5.5	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Vinyl chloride	ND	5.5	"	"	"	"	"	"	5035R
Benzene	ND	5.5	"	"	"	"	"	"	5035R
Toluene	ND	5.5	"	"	"	"	"	"	5035R
Ethylbenzene	5.7	5.5	"	"	"	"	"	"	5035R
m,p-Xylene	ND	11	"	"	"	"	"	"	5035R
o-Xylene	ND	5.5	"	"	"	"	"	"	5035R
Surrogate: Toluene-d8		93.3 %	76.1-127		"	"	"	"	5035R
Surrogate: 4-Bromofluorobenzene		100 %	85.9-114		"	"	"	"	5035R
Surrogate: Dibromofluoromethane		111 %	77.8-142		"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8122018	12/20/18	12/27/18	EPA 8270C	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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T183752-17 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8122018	12/20/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

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T183752-17 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8122018	12/20/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	48.0 %	15-121			"	"	"	"	
Surrogate: Phenol-d6	37.0 %	24-113			"	"	"	"	
Surrogate: Nitrobenzene-d5	61.0 %	21.3-119			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	58.0 %	32.4-102			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	27.0 %	18.1-105			"	"	"	"	
Surrogate: Terphenyl-d14	93.0 %	29.1-130			"	"	"	"	

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T183752-18 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	540	ug/kg	1	8121929	12/19/18	12/21/18	EPA 8015B/5035	
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Surrogate: *a,a,a-Trifluorotoluene* 60.8 % 65-135 " " " " S-04

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122017	12/20/18	12/27/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p-Terphenyl* 90.9 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8122127	12/21/18	12/26/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.9	5.0	"	"	"	"	"	"	
Barium	110	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	9.1	2.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	6.9	3.0	"	"	"	"	"	"	
Molybdenum	8.7	5.0	"	"	"	"	"	"	
Nickel	20	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	40	5.0	"	"	"	"	"	"	
Zinc	74	1.0	"	"	"	"	"	"	

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T183752-18 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8122126	12/21/18	12/26/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Bromochloromethane	ND	5.2	"	"	"	"	"	"	5035R
Bromodichloromethane	ND	5.2	"	"	"	"	"	"	5035R
Bromoform	ND	5.2	"	"	"	"	"	"	5035R
Bromomethane	ND	5.2	"	"	"	"	"	"	5035R
n-Butylbenzene	ND	5.2	"	"	"	"	"	"	5035R
sec-Butylbenzene	ND	5.2	"	"	"	"	"	"	5035R
tert-Butylbenzene	ND	5.2	"	"	"	"	"	"	5035R
Carbon tetrachloride	ND	5.2	"	"	"	"	"	"	5035R
Chlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
Chloroethane	ND	5.2	"	"	"	"	"	"	5035R
Chloroform	ND	5.2	"	"	"	"	"	"	5035R
Chloromethane	ND	5.2	"	"	"	"	"	"	5035R
2-Chlorotoluene	ND	5.2	"	"	"	"	"	"	5035R
4-Chlorotoluene	ND	5.2	"	"	"	"	"	"	5035R
Dibromochloromethane	ND	5.2	"	"	"	"	"	"	5035R
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	5035R
1,2-Dibromoethane (EDB)	ND	5.2	"	"	"	"	"	"	5035R
Dibromomethane	ND	5.2	"	"	"	"	"	"	5035R
1,2-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
1,3-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
1,4-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
Dichlorodifluoromethane	ND	5.2	"	"	"	"	"	"	5035R
1,1-Dichloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,2-Dichloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,1-Dichloroethene	ND	5.2	"	"	"	"	"	"	5035R
cis-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	5035R
trans-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	5035R

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@15
T183752-18 (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-Dichloropropane	ND	5.2	ug/kg	1	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
1,3-Dichloropropane	ND	5.2	"	"	"	"	"	"	5035R
2,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	5035R
1,1-Dichloropropene	ND	5.2	"	"	"	"	"	"	5035R
cis-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	5035R
trans-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	5035R
Hexachlorobutadiene	ND	5.2	"	"	"	"	"	"	5035R
Isopropylbenzene	ND	5.2	"	"	"	"	"	"	5035R
p-Isopropyltoluene	ND	5.2	"	"	"	"	"	"	5035R
Methylene chloride	ND	5.2	"	"	"	"	"	"	5035R
Naphthalene	ND	5.2	"	"	"	"	"	"	5035R
n-Propylbenzene	ND	5.2	"	"	"	"	"	"	5035R
Styrene	ND	5.2	"	"	"	"	"	"	5035R
1,1,2,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,1,1,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	5035R
Tetrachloroethene	ND	5.2	"	"	"	"	"	"	5035R
1,2,3-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
1,2,4-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	5035R
1,1,2-Trichloroethane	ND	5.2	"	"	"	"	"	"	5035R
1,1,1-Trichloroethane	ND	5.2	"	"	"	"	"	"	5035R
Trichloroethene	ND	5.2	"	"	"	"	"	"	5035R
Trichlorofluoromethane	ND	5.2	"	"	"	"	"	"	5035R
1,2,3-Trichloropropane	ND	5.2	"	"	"	"	"	"	5035R
1,3,5-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	5035R
1,2,4-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	5035R
Vinyl chloride	ND	5.2	"	"	"	"	"	"	5035R
Benzene	ND	5.2	"	"	"	"	"	"	5035R
Toluene	ND	5.2	"	"	"	"	"	"	5035R
Ethylbenzene	ND	5.2	"	"	"	"	"	"	5035R
m,p-Xylene	ND	10	"	"	"	"	"	"	5035R
o-Xylene	ND	5.2	"	"	"	"	"	"	5035R

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T183752-18 (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

Surrogate: Toluene-d8	95.2 %	76.1-127	8121925	12/19/18	12/27/18	EPA 8260B/5035	5035R
Surrogate: 4-Bromofluorobenzene	96.2 %	85.9-114	"	"	"	"	5035R
Surrogate: Dibromofluoromethane	109 %	77.8-142	"	"	"	"	5035R

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8122018	12/20/18	12/27/18	EPA 8270C
Phenol	ND	1000	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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Project Manager: Derrick Willis

Reported:
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B4@15

T183752-18 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8122018	12/20/18	12/27/18	EPA 8270C	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

B4@15

T183752-18 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Nitroaniline	ND	300	ug/kg	1	8122018	12/20/18	12/27/18	EPA 8270C
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	62.4 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	60.0 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	66.3 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	70.2 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	85.3 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	86.1 %	29.1-130	"	"	"	"	"	"

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Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Purgeable Petroleum Hydrocarbons by EPA 8015B - 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 8121929 - EPA 5035 GC

Blank (8121929-BLK1)

Prepared & Analyzed: 12/19/18

C6-C12 (GRO)	ND	480	ug/kg							
Surrogate: a,a,a-Trifluorotoluene	85.0		"	100		85.0	65-135			

LCS (8121929-BS1)

Prepared & Analyzed: 12/19/18

C4-C12 (GRO)	9070		ug/kg	10200		88.6	75-125			
Surrogate: a,a,a-Trifluorotoluene	94.4		"	100		94.4	65-135			

LCS Dup (8121929-BSD1)

Prepared & Analyzed: 12/19/18

C4-C12 (GRO)	9650		ug/kg	10800		89.3	75-125	6.21	20	
Surrogate: a,a,a-Trifluorotoluene	85.6		"	100		85.6	65-135			

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Extractable Petroleum Hydrocarbons by 8015B - 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 8122017 - EPA 3550B GC

Blank (8122017-BLK1)

Prepared: 12/20/18 Analyzed: 12/27/18

C13-C22 (DRO)	ND	10	mg/kg							
C23-C32 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	91.8		"	100		91.8	65-135			

LCS (8122017-BS1)

Prepared: 12/20/18 Analyzed: 12/26/18

C13-C22 (DRO)	470	10	mg/kg	500		93.5	75-125			
Surrogate: <i>p</i> -Terphenyl	91.7		"	100		91.7	65-135			

Matrix Spike (8122017-MS1)

Source: T183752-01

Prepared: 12/20/18 Analyzed: 12/26/18

C13-C22 (DRO)	460	10	mg/kg	495	5.3	92.8	75-125			
Surrogate: <i>p</i> -Terphenyl	89.1		"	99.0		90.0	65-135			

Matrix Spike Dup (8122017-MSD1)

Source: T183752-01

Prepared: 12/20/18 Analyzed: 12/26/18

C13-C22 (DRO)	460	10	mg/kg	500	5.3	91.6	75-125	0.295	20	
Surrogate: <i>p</i> -Terphenyl	91.8		"	100		91.8	65-135			

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Metals by EPA 6010B - 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 8122127 - EPA 3050B

Blank (8122127-BLK1)

Prepared: 12/21/18 Analyzed: 12/26/18

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	2.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (8122127-BS1)

Prepared: 12/21/18 Analyzed: 12/26/18

Arsenic	92.5	5.0	mg/kg	100	92.5	75-125
Barium	94.5	1.0	"	100	94.5	75-125
Cadmium	92.6	2.0	"	100	92.6	75-125
Chromium	95.1	2.0	"	100	95.1	75-125
Lead	91.0	3.0	"	100	91.0	75-125

Matrix Spike (8122127-MS1)

Source: T183566-23

Prepared: 12/21/18 Analyzed: 12/26/18

Arsenic	103	5.0	mg/kg	100	3.07	99.8	75-125
Barium	276	1.0	"	100	156	121	75-125
Cadmium	98.5	2.0	"	100	1.44	97.0	75-125
Chromium	140	2.0	"	100	35.7	105	75-125
Lead	210	3.0	"	100	121	89.1	75-125

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Metals by EPA 6010B - 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 8122127 - EPA 3050B

Matrix Spike Dup (8122127-MSD1)

Source: T183566-23

Prepared: 12/21/18 Analyzed: 12/26/18

Arsenic	97.2	5.0	mg/kg	100	3.07	94.1	75-125	5.71	20	
Barium	261	1.0	"	100	156	106	75-125	5.54	20	
Cadmium	96.3	2.0	"	100	1.44	94.8	75-125	2.24	20	
Chromium	136	2.0	"	100	35.7	100	75-125	3.24	20	
Lead	216	3.0	"	100	121	94.5	75-125	2.56	20	

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Reported:
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Cold Vapor Extraction EPA 7470/7471 - 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 8122126 - EPA 7471A Soil

Blank (8122126-BLK1)

Prepared: 12/21/18 Analyzed: 12/26/18

Mercury	ND	0.10	mg/kg							
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LCS (8122126-BS1)

Prepared: 12/21/18 Analyzed: 12/26/18

Mercury	0.350	0.10	mg/kg	0.410		85.4	80-120			
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Matrix Spike (8122126-MS1)

Source: T183752-01

Prepared: 12/21/18 Analyzed: 12/26/18

Mercury	0.413	0.10	mg/kg	0.410	0.137	67.4	75-125			QM-05
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Matrix Spike Dup (8122126-MSD1)

Source: T183752-01

Prepared: 12/21/18 Analyzed: 12/26/18

Mercury	0.401	0.10	mg/kg	0.417	0.137	63.5	75-125	2.88	20	QM-05
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Organochlorine Pesticides by EPA Method 8081A - 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 8121933 - EPA 3550 ECD/GCMS

Blank (8121933-BLK1)

Prepared: 12/19/18 Analyzed: 12/20/18

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	5.0	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	8.09		"	10.0		80.9	35-140			
Surrogate: Decachlorobiphenyl	9.41		"	10.0		94.1	35-140			

LCS (8121933-BS1)

Prepared: 12/19/18 Analyzed: 12/20/18

gamma-BHC (Lindane)	32.3	5.0	ug/kg	40.0		80.8	40-120			
Heptachlor	32.9	5.0	"	40.0		82.2	40-120			
Aldrin	31.9	5.0	"	40.0		79.6	40-120			
Dieldrin	33.2	5.0	"	40.0		83.0	40-120			
Endrin	35.1	5.0	"	40.0		87.8	40-120			
4,4'-DDT	35.6	5.0	"	40.0		89.1	33-147			
Surrogate: Tetrachloro-meta-xylene	8.29		"	10.0		82.9	35-140			
Surrogate: Decachlorobiphenyl	10.1		"	10.0		101	35-140			

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Organochlorine Pesticides by EPA Method 8081A - 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 8121933 - EPA 3550 ECD/GCMS

Matrix Spike (8121933-MS1)		Source: T183752-01			Prepared: 12/19/18 Analyzed: 12/20/18					
gamma-BHC (Lindane)	ND	250	ug/kg	39.2	ND		30-120			QM-01, R-07
Heptachlor	ND	250	"	39.2	ND		30-120			QM-01, R-07
Aldrin	ND	250	"	39.2	ND		30-120			QM-01, R-07
Dieldrin	ND	250	"	39.2	ND		30-120			QM-01, R-07
Endrin	ND	250	"	39.2	ND		30-120			QM-01, R-07
4,4'-DDT	44.9	250	"	39.2	ND	115	30-120			QM-01
Surrogate: Tetrachloro-meta-xylene	8.87		"	9.80		90.5	35-140			
Surrogate: Decachlorobiphenyl	8.88		"	9.80		90.6	35-140			

Matrix Spike Dup (8121933-MSD1)		Source: T183752-01			Prepared: 12/19/18 Analyzed: 12/20/18					
gamma-BHC (Lindane)	ND	250	ug/kg	40.0	ND		30-120		30	QM-01, R-07
Heptachlor	ND	250	"	40.0	ND		30-120		30	QM-01, R-07
Aldrin	ND	250	"	40.0	ND		30-120		30	QM-01, R-07
Dieldrin	ND	250	"	40.0	ND		30-120		30	QM-01, R-07
Endrin	ND	250	"	40.0	ND		30-120		30	QM-01, R-07
4,4'-DDT	40.4	250	"	40.0	ND	101	30-120	12.5	30	QM-01
Surrogate: Tetrachloro-meta-xylene	9.06		"	10.0		90.6	35-140			
Surrogate: Decachlorobiphenyl	10.0		"	10.0		100	35-140			

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Polychlorinated Biphenyls by EPA Method 8082 - 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 8121934 - EPA 3550 ECD/GCMS

Blank (8121934-BLK1)

Prepared: 12/19/18 Analyzed: 12/26/18

PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	7.23		"	9.90		73.1	35-140			
Surrogate: Decachlorobiphenyl	7.21		"	9.90		72.8	35-140			

LCS (8121934-BS1)

Prepared: 12/19/18 Analyzed: 12/26/18

PCB-1016	54.4	10	ug/kg	99.0		54.9	40-130			
PCB-1260	62.7	10	"	99.0		63.3	40-130			
Surrogate: Tetrachloro-meta-xylene	6.42		"	9.90		64.8	35-140			
Surrogate: Decachlorobiphenyl	7.31		"	9.90		73.9	35-140			

Matrix Spike (8121934-MS1)

Source: T183752-01

Prepared: 12/19/18 Analyzed: 12/26/18

PCB-1016	55.3	10	ug/kg	98.0	ND	56.4	40-130			
PCB-1260	130	10	"	98.0	ND	132	40-130			QM-02
Surrogate: Tetrachloro-meta-xylene	6.80		"	9.80		69.4	35-140			
Surrogate: Decachlorobiphenyl	7.66		"	9.80		78.2	35-140			

Matrix Spike Dup (8121934-MSD1)

Source: T183752-01

Prepared: 12/19/18 Analyzed: 12/26/18

PCB-1016	62.1	10	ug/kg	98.0	ND	63.3	40-130	11.5	30	
PCB-1260	138	10	"	98.0	ND	140	40-130	6.09	30	QM-02
Surrogate: Tetrachloro-meta-xylene	7.88		"	9.80		80.4	35-140			
Surrogate: Decachlorobiphenyl	7.69		"	9.80		78.5	35-140			

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Project Manager: Derrick Willis

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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 8121925 - EPA 5035 GCMS

Blank (8121925-BLK1)

Prepared: 12/19/18 Analyzed: 12/22/18

Bromobenzene	ND	5.0	ug/kg
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	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-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
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	"
Isopropylbenzene	ND	5.0	"

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Project Manager: Derrick Willis

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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 8121925 - EPA 5035 GCMS

Blank (8121925-BLK1)

Prepared: 12/19/18 Analyzed: 12/22/18

p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	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	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							

Surrogate: Toluene-d8	38.5		"	39.9		96.4	76.1-127
Surrogate: 4-Bromofluorobenzene	41.5		"	39.9		104	85.9-114
Surrogate: Dibromofluoromethane	41.0		"	39.9		103	77.8-142

LCS (8121925-BS1)

Prepared: 12/19/18 Analyzed: 12/27/18

Chlorobenzene	102	5.0	ug/kg	100		101	75-125
1,1-Dichloroethene	105	5.0	"	100		105	75-125
Trichloroethene	101	5.0	"	100		100	75-125
Benzene	101	5.0	"	100		100	75-125
Toluene	91.4	5.0	"	100		91.1	75-125
Surrogate: Toluene-d8	37.8		"	40.2		94.2	76.1-127
Surrogate: 4-Bromofluorobenzene	42.3		"	40.2		105	85.9-114
Surrogate: Dibromofluoromethane	45.0		"	40.2		112	77.8-142

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Project Manager: Derrick Willis

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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 Limits	RPD	RPD Limit	Notes
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Batch 8121925 - EPA 5035 GCMS

LCS Dup (8121925-BSD1)

Prepared: 12/19/18 Analyzed: 12/27/18

Chlorobenzene	86.3	4.6	ug/kg	92.7	93.1	75-125	16.4	20	
1,1-Dichloroethene	92.1	4.6	"	92.7	99.3	75-125	13.5	20	
Trichloroethene	84.7	4.6	"	92.7	91.4	75-125	17.1	20	
Benzene	86.5	4.6	"	92.7	93.4	75-125	15.1	20	
Toluene	80.8	4.6	"	92.7	87.1	75-125	12.4	20	
Surrogate: Toluene-d8	36.9		"	37.1	99.6	76.1-127			
Surrogate: 4-Bromofluorobenzene	36.6		"	37.1	98.7	85.9-114			
Surrogate: Dibromofluoromethane	44.1		"	37.1	119	77.8-142			

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
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Semivolatile Organic Compounds by EPA Method 8270C - 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 8122018 - EPA 3550 ECD/GCMS

Blank (8122018-BLK1)

Prepared: 12/20/18 Analyzed: 12/26/18

Carbazole	ND	300	ug/kg
Aniline	ND	300	"
Phenol	ND	1000	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
2-Methylnaphthalene	ND	300	"
1-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

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01/09/19 15:06

Semivolatile Organic Compounds by EPA Method 8270C - 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 8122018 - EPA 3550 ECD/GCMS

Blank (8122018-BLK1)

Prepared: 12/20/18 Analyzed: 12/26/18

1,2-Dichlorobenzene	ND	300	ug/kg
1,3-Dichlorobenzene	ND	300	"
2,4-Dichlorophenol	ND	1000	"
Diethyl phthalate	ND	300	"
2,4-Dimethylphenol	ND	1000	"
Dimethyl phthalate	ND	300	"
4,6-Dinitro-2-methylphenol	ND	1000	"
2,4-Dinitrophenol	ND	1000	"
2,6-Dinitrotoluene	ND	1000	"
Di-n-octyl phthalate	ND	300	"
Fluoranthene	ND	300	"
Fluorene	ND	300	"
Hexachlorobenzene	ND	1500	"
Hexachlorobutadiene	ND	300	"
Hexachlorocyclopentadiene	ND	1000	"
Hexachloroethane	ND	300	"
Indeno (1,2,3-cd) pyrene	ND	300	"
Isophorone	ND	300	"
2-Methylphenol	ND	1000	"
4-Methylphenol	ND	1000	"
Naphthalene	ND	300	"
2-Nitroaniline	ND	300	"
3-Nitroaniline	ND	300	"
4-Nitroaniline	ND	300	"
Nitrobenzene	ND	1000	"
2-Nitrophenol	ND	1000	"
N-Nitrosodimethylamine	ND	300	"
N-Nitrosodiphenylamine	ND	300	"
2,3,5,6-Tetrachlorophenol	ND	300	"
2,3,4,6-Tetrachlorophenol	ND	300	"
Phenanthrene	ND	300	"
Azobenzene	ND	300	"
2,4,5-Trichlorophenol	ND	1000	"
Pyridine	ND	300	"
2,4,6-Trichlorophenol	ND	1000	"

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01/09/19 15:06

Semivolatile Organic Compounds by EPA Method 8270C - 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 8122018 - EPA 3550 ECD/GCMS

Blank (8122018-BLK1)

Prepared: 12/20/18 Analyzed: 12/26/18

Surrogate: 2-Fluorophenol	2110		ug/kg	3300		63.8	15-121			
Surrogate: Phenol-d6	1980		"	3300		60.0	24-113			
Surrogate: Nitrobenzene-d5	2310		"	3300		70.1	21.3-119			
Surrogate: 2-Fluorobiphenyl	2540		"	3300		77.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2890		"	3300		87.7	18.1-105			
Surrogate: Terphenyl-d14	2860		"	3300		86.6	29.1-130			

LCS (8122018-BS1)

Prepared: 12/20/18 Analyzed: 12/26/18

Phenol	1600	1000	ug/kg	3240		49.5	34-114			
2-Chlorophenol	1790	1000	"	3240		55.2	34-114			
1,4-Dichlorobenzene	2000	300	"	3240		61.8	34-114			
N-Nitrosodi-n-propylamine	2070	300	"	3240		64.0	30-110			
1,2,4-Trichlorobenzene	2090	300	"	3240		64.4	39-119			
4-Chloro-3-methylphenol	2110	1000	"	3240		65.4	50-130			
Acenaphthene	2350	300	"	3240		72.7	34-114			
Pentachlorophenol	3370	1000	"	3240		104	50-130			
Pyrene	1960	300	"	3240		60.5	33.7-123			
Surrogate: 2-Fluorophenol	1660		"	3240		51.3	15-121			
Surrogate: Phenol-d6	1700		"	3240		52.4	24-113			
Surrogate: Nitrobenzene-d5	1860		"	3240		57.4	21.3-119			
Surrogate: 2-Fluorobiphenyl	2060		"	3240		63.8	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2590		"	3240		80.1	18.1-105			
Surrogate: Terphenyl-d14	2530		"	3240		78.3	29.1-130			

LCS Dup (8122018-BSD1)

Prepared: 12/20/18 Analyzed: 12/26/18

Phenol	1920	1000	ug/kg	3270		58.9	34-114	18.4	42	
2-Chlorophenol	2140	1000	"	3270		65.6	34-114	18.1	40	
1,4-Dichlorobenzene	2390	300	"	3270		73.2	34-114	17.9	28	
N-Nitrosodi-n-propylamine	2490	300	"	3270		76.0	30-110	18.2	38	
1,2,4-Trichlorobenzene	2500	300	"	3270		76.4	39-119	17.9	28	
4-Chloro-3-methylphenol	2520	1000	"	3270		77.2	50-130	17.6	42	
Acenaphthene	2730	300	"	3270		83.7	34-114	14.9	31	
Pentachlorophenol	3840	1000	"	3270		118	50-130	13.0	50	
Pyrene	2120	300	"	3270		64.8	33.7-123	7.77	31	
Surrogate: 2-Fluorophenol	2020		"	3270		61.7	15-121			
Surrogate: Phenol-d6	1940		"	3270		59.4	24-113			

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.

Joann Marroquin, Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

Semivolatile Organic Compounds by EPA Method 8270C - 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 8122018 - EPA 3550 ECD/GCMS

LCS Dup (8122018-BSD1)

Prepared: 12/20/18 Analyzed: 12/26/18

Surrogate: Nitrobenzene-d5	2250		ug/kg	3270		68.8	21.3-119			
Surrogate: 2-Fluorobiphenyl	2450		"	3270		75.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3020		"	3270		92.4	18.1-105			
Surrogate: Terphenyl-d14	2740		"	3270		83.8	29.1-130			

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 15:06

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).

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

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

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.

M-02 Multiple analysis yielded poor internal standard and/or surrogate recoveries due to matrix effect. Results reported are from the most complete recovery of internal standards, however, recoveries were not within the acceptable limits of the method.

5035R 5035 sample integrity was compromised and unusable. Analysis was performed from additional soil sampled.

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

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.

Joann Marroquin, Client Services Manager



**SunStar
Laboratories**

Chain of Custody Record

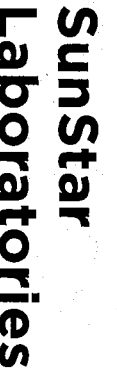
25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Client: Northridge Env Mgmt Inc
Address: 24111 Ridge Road N/A #30
Phone: 949.375.7004 Fax: _____
Project Manager: D Williams

Date: 12/17/18 Page: 1 of 2
Project Name: Howard Sunset
Collector: D Williams Client Project #: 2047.17.01
Batch #: T183752 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time (AM)	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	PeBs 8082	OCPs 8081	Comments/Preservative	Total # of containers	Notes	
01	B1051 B1011	12/17/18	12:25	Soil	51 + 5085	X			X		X	X	X	X	X						
02	B1051		12:25		51 T 5085	X			X		X	X	X	X	X						
03	B1010		12:40			X			X		X	X	X	X	X						
04	B1015		12:58			X			X		X	X	X	X	X						
05	B1020		1:40			X			X		X	X	X	X	X						
06	B1025		2:05			X			X		X	X	X	X	X						
07	B2011		3:05			X			X		X	X	X	X	X						
08	B2051		3:10			X			X		X	X	X	X	X						
09	B2010		3:15			X			X		X	X	X	X	X						
10	B2015		3:25			X			X		X	X	X	X	X						
11	B3011		4:10			X			X		X	X	X	X	X						
12	B3051		4:15			X			X		X	X	X	X	X						
13	B3010		4:20			X			X		X	X	X	X	X						
14	B3015		4:30			X			X		X	X	X	X	X						
15	B4011		5:25			X			X		X	X	X	X	X						
Relinquished by: (signature)				Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N (NA)														Notes
Relinquished by: (signature)				12/18/18 11:30	Received by: (signature)	12/18/18 11:30	Seals intact? Y/N (NA)														
Relinquished by: (signature)				Date / Time	Received by: (signature)	Date / Time	Received good condition/cold														
Relinquished by: (signature)				Date / Time	Received by: (signature)	Date / Time	Turn around time: STD														

COC 180564



25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Page 144 of 151

COC 180563



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

TIR3752

Client Name:

NORTHGATE ENV.

Project:

HOLLAND SUNSET

Delivered by:

☒ Client

☐ SunStar Courier

☐ GSO

☐ FedEx

☐ Other

If Courier, Received by:

Date/Time Courier

Received:

Lab Received by:

Date/Time Lab

Received:

SUNNY

12-18-18 / 11:30

Total number of coolers received: 1

Temperature: Cooler #1 2.5 °C +/- the CF (1.2°C) = 4.0 °C corrected temperature

Temperature: Cooler #2 °C +/- the CF (1.2°C) = °C corrected temperature

Temperature: Cooler #3 °C +/- the CF (1.2°C) = °C corrected temperature

Temperature criteria = $\leq 6^{\circ}\text{C}$
(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 12-18-18

Comments:

WORK ORDER

T183752

Client: Northgate Environmental Management -- Laguna
Project: Holland Sunset

Project Manager: Joann Marroquin
Project Number: 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 12/27/18 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 12/18/18 11:30

Logged In By: Sunny Lounethone

Date Logged In: 12/18/18 13:35

Samples Received at: 4°C

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

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T183752-01 B1@1 [Soil] Sampled 12/17/18 12:20 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	06/15/19 12:20
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 12:20
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 12:20
8081 Pesticides	12/27/18 15:00	5	12/31/18 12:20
8082 PCB	12/27/18 15:00	5	12/31/18 12:20
8260 5035	12/27/18 15:00	5	12/31/18 12:20
8270C	12/27/18 15:00	5	12/31/18 12:20

T183752-02 B1@5 [Soil] Sampled 12/17/18 12:25 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	06/15/19 12:25
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 12:25
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 12:25
8081 Pesticides	12/27/18 15:00	5	12/31/18 12:25
8082 PCB	12/27/18 15:00	5	12/31/18 12:25
8260 5035	12/27/18 15:00	5	12/31/18 12:25
8270C	12/27/18 15:00	5	12/31/18 12:25

WORK ORDER

T183752

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183752-03 B1@10 [Soil] Sampled 12/17/18 12:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 12:40	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 12:40	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 12:40	
8081 Pesticides	12/27/18 15:00	5	12/31/18 12:40	
8082 PCB	12/27/18 15:00	5	12/31/18 12:40	
8260 5035	12/27/18 15:00	5	12/31/18 12:40	
8270C	12/27/18 15:00	5	12/31/18 12:40	
T183752-04 B1@15 [Soil] Sampled 12/17/18 12:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 12:50	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 12:50	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 12:50	
8260 5035	12/27/18 15:00	5	12/31/18 12:50	
8270C	12/27/18 15:00	5	12/31/18 12:50	
T183752-05 B1@20 [Soil] Sampled 12/17/18 13:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 13:40	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 13:40	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 13:40	
8260 5035	12/27/18 15:00	5	12/31/18 13:40	
T183752-06 B1@25 [Soil] Sampled 12/17/18 14:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 14:05	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 14:05	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 14:05	
8260 5035	12/27/18 15:00	5	12/31/18 14:05	

WORK ORDER

T183752

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183752-07 B2@1 [Soil] Sampled 12/17/18 15:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 15:05	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 15:05	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 15:05	
8081 Pesticides	12/27/18 15:00	5	12/31/18 15:05	
8082 PCB	12/27/18 15:00	5	12/31/18 15:05	
8260 5035	12/27/18 15:00	5	12/31/18 15:05	
8270C	12/27/18 15:00	5	12/31/18 15:05	
T183752-08 B2@5 [Soil] Sampled 12/17/18 15:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 15:10	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 15:10	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 15:10	
8081 Pesticides	12/27/18 15:00	5	12/31/18 15:10	
8082 PCB	12/27/18 15:00	5	12/31/18 15:10	
8260 5035	12/27/18 15:00	5	12/31/18 15:10	
8270C	12/27/18 15:00	5	12/31/18 15:10	
T183752-09 B2@10 [Soil] Sampled 12/17/18 15:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 15:15	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 15:15	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 15:15	
8081 Pesticides	12/27/18 15:00	5	12/31/18 15:15	
8082 PCB	12/27/18 15:00	5	12/31/18 15:15	
8260 5035	12/27/18 15:00	5	12/31/18 15:15	
8270C	12/27/18 15:00	5	12/31/18 15:15	
T183752-10 B2@15 [Soil] Sampled 12/17/18 15:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 15:25	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 15:25	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 15:25	
8260 5035	12/27/18 15:00	5	12/31/18 15:25	
8270C	12/27/18 15:00	5	12/31/18 15:25	

WORK ORDER

T183752

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183752-11 B3@1 [Soil] Sampled 12/17/18 16:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 16:10	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 16:10	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 16:10	
8081 Pesticides	12/27/18 15:00	5	12/31/18 16:10	
8082 PCB	12/27/18 15:00	5	12/31/18 16:10	
8260 5035	12/27/18 15:00	5	12/31/18 16:10	
8270C	12/27/18 15:00	5	12/31/18 16:10	
T183752-12 B3@5 [Soil] Sampled 12/17/18 16:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 16:15	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 16:15	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 16:15	
8081 Pesticides	12/27/18 15:00	5	12/31/18 16:15	
8082 PCB	12/27/18 15:00	5	12/31/18 16:15	
8260 5035	12/27/18 15:00	5	12/31/18 16:15	
8270C	12/27/18 15:00	5	12/31/18 16:15	
T183752-13 B3@10 [Soil] Sampled 12/17/18 16:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 16:20	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 16:20	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 16:20	
8081 Pesticides	12/27/18 15:00	5	12/31/18 16:20	
8082 PCB	12/27/18 15:00	5	12/31/18 16:20	
8260 5035	12/27/18 15:00	5	12/31/18 16:20	
8270C	12/27/18 15:00	5	12/31/18 16:20	
T183752-14 B3@15 [Soil] Sampled 12/17/18 16:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 16:30	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 16:30	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 16:30	
8260 5035	12/27/18 15:00	5	12/31/18 16:30	
8270C	12/27/18 15:00	5	12/31/18 16:30	

WORK ORDER

T183752

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183752-15 B4@1 [Soil] Sampled 12/17/18 17:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 17:25	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 17:25	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 17:25	
8081 Pesticides	12/27/18 15:00	5	12/31/18 17:25	
8082 PCB	12/27/18 15:00	5	12/31/18 17:25	
8260 5035	12/27/18 15:00	5	12/31/18 17:25	
8270C	12/27/18 15:00	5	12/31/18 17:25	
T183752-16 B4@5 [Soil] Sampled 12/17/18 17:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 17:35	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 17:35	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 17:35	
8081 Pesticides	12/27/18 15:00	5	12/31/18 17:35	
8082 PCB	12/27/18 15:00	5	12/31/18 17:35	
8260 5035	12/27/18 15:00	5	12/31/18 17:35	
8270C	12/27/18 15:00	5	12/31/18 17:35	
T183752-17 B4@10 [Soil] Sampled 12/17/18 17:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 17:40	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 17:40	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 17:40	
8081 Pesticides	12/27/18 15:00	5	12/31/18 17:40	
8082 PCB	12/27/18 15:00	5	12/31/18 17:40	
8260 5035	12/27/18 15:00	5	12/31/18 17:40	
8270C	12/27/18 15:00	5	12/31/18 17:40	
T183752-18 B4@15 [Soil] Sampled 12/17/18 17:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/15/19 17:50	
8015 Carbon Chain	12/27/18 15:00	5	12/31/18 17:50	
8015 m 5035-GRO	12/27/18 15:00	5	12/31/18 17:50	
8260 5035	12/27/18 15:00	5	12/31/18 17:50	
8270C	12/27/18 15:00	5	12/31/18 17:50	

WORK ORDER

T183752

Client: Northgate Environmental Management -- Laguna

Project Manager: Joann Marroquin

Project: Holland Sunset

Project Number: 2047.17.01

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22

7470/71 Hg



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

09 January 2019

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Holland Sunset

Enclosed are the results of analyses for samples received by the laboratory on 12/18/18 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joann Marroquin
Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B5@1	T183753-01	Soil	12/18/18 00:01	12/18/18 11:30
B5@5	T183753-02	Soil	12/18/18 00:05	12/18/18 11:30
B5@10	T183753-03	Soil	12/18/18 00:20	12/18/18 11:30
B5@15	T183753-04	Soil	12/18/18 00:35	12/18/18 11:30
B5@17	T183753-05	Soil	12/18/18 00:45	12/18/18 11:30
B6@1	T183753-06	Soil	12/18/18 01:20	12/18/18 11:30
B6@5	T183753-07	Soil	12/18/18 13:35	12/18/18 11:30
B6@10	T183753-08	Soil	12/18/18 01:50	12/18/18 11:30
B6@15	T183753-09	Soil	12/18/18 02:10	12/18/18 11:30
B7@1	T183753-10	Soil	12/18/18 02:40	12/18/18 11:30
B7@5	T183753-11	Soil	12/18/18 02:50	12/18/18 11:30
B7@10	T183753-12	Soil	12/18/18 03:00	12/18/18 11:30
B7@15	T183753-13	Soil	12/18/18 03:10	12/18/18 11:30
B8@1	T183753-14	Soil	12/18/18 03:50	12/18/18 11:30
B8@5	T183753-15	Soil	12/18/18 04:00	12/18/18 11:30
B8@9	T183753-16	Soil	12/18/18 04:15	12/18/18 11:30

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.

Joann Marroquin, Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

DETECTIONS SUMMARY

Sample ID: B5@1

Laboratory ID: T183753-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	880	100	mg/kg	EPA 8015B	
Arsenic	9.8	5.0	mg/kg	EPA 6010b	
Barium	150	1.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	13	2.0	mg/kg	EPA 6010b	
Copper	33	1.0	mg/kg	EPA 6010b	
Lead	210	3.0	mg/kg	EPA 6010b	
Molybdenum	9.4	5.0	mg/kg	EPA 6010b	
Nickel	24	2.0	mg/kg	EPA 6010b	
Vanadium	40	5.0	mg/kg	EPA 6010b	
Zinc	81	1.0	mg/kg	EPA 6010b	

Sample ID: B5@5

Laboratory ID: T183753-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	52	10	mg/kg	EPA 8015B	
Arsenic	7.6	5.0	mg/kg	EPA 6010b	
Barium	150	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	11	2.0	mg/kg	EPA 6010b	
Copper	24	1.0	mg/kg	EPA 6010b	
Molybdenum	9.3	5.0	mg/kg	EPA 6010b	
Nickel	20	2.0	mg/kg	EPA 6010b	
Vanadium	35	5.0	mg/kg	EPA 6010b	
Zinc	46	1.0	mg/kg	EPA 6010b	
Ethylbenzene	5.9	5.9	ug/kg	EPA 8260B/5035	

Sample ID: B5@10

Laboratory ID: T183753-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	8.2	5.0	mg/kg	EPA 6010b	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

Sample ID: B5@10

Laboratory ID: T183753-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	56	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	11	2.0	mg/kg	EPA 6010b	
Copper	29	1.0	mg/kg	EPA 6010b	
Molybdenum	11	5.0	mg/kg	EPA 6010b	
Nickel	22	2.0	mg/kg	EPA 6010b	
Vanadium	37	5.0	mg/kg	EPA 6010b	
Zinc	60	1.0	mg/kg	EPA 6010b	

Sample ID: B5@15

Laboratory ID: T183753-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	21	5.0	mg/kg	EPA 6010b	
Barium	63	1.0	mg/kg	EPA 6010b	
Chromium	22	2.0	mg/kg	EPA 6010b	
Cobalt	15	2.0	mg/kg	EPA 6010b	
Copper	50	1.0	mg/kg	EPA 6010b	
Lead	9.4	3.0	mg/kg	EPA 6010b	
Molybdenum	19	5.0	mg/kg	EPA 6010b	
Nickel	33	2.0	mg/kg	EPA 6010b	
Vanadium	58	5.0	mg/kg	EPA 6010b	
Zinc	97	1.0	mg/kg	EPA 6010b	
Ethylbenzene	6.7	5.1	ug/kg	EPA 8260B/5035	

Sample ID: B5@17

Laboratory ID: T183753-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	8.3	5.0	mg/kg	EPA 6010b	
Barium	63	1.0	mg/kg	EPA 6010b	
Chromium	15	2.0	mg/kg	EPA 6010b	
Cobalt	12	2.0	mg/kg	EPA 6010b	
Copper	23	1.0	mg/kg	EPA 6010b	
Lead	8.9	3.0	mg/kg	EPA 6010b	
Molybdenum	11	5.0	mg/kg	EPA 6010b	
Nickel	20	2.0	mg/kg	EPA 6010b	

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Project Manager: Derrick Willis

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Sample ID: B5@17

Laboratory ID: T183753-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Vanadium	31	5.0	mg/kg	EPA 6010b	
Zinc	60	1.0	mg/kg	EPA 6010b	

Sample ID: B6@1

Laboratory ID: T183753-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	8.1	5.0	mg/kg	EPA 6010b	
Barium	120	1.0	mg/kg	EPA 6010b	
Chromium	17	2.0	mg/kg	EPA 6010b	
Cobalt	13	2.0	mg/kg	EPA 6010b	
Copper	25	1.0	mg/kg	EPA 6010b	
Lead	8.8	3.0	mg/kg	EPA 6010b	
Molybdenum	8.3	5.0	mg/kg	EPA 6010b	
Nickel	25	2.0	mg/kg	EPA 6010b	
Vanadium	43	5.0	mg/kg	EPA 6010b	
Zinc	48	1.0	mg/kg	EPA 6010b	

Sample ID: B6@5

Laboratory ID: T183753-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	110	10	mg/kg	EPA 8015B	
Arsenic	9.9	5.0	mg/kg	EPA 6010b	
Barium	650	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	13	2.0	mg/kg	EPA 6010b	
Copper	29	1.0	mg/kg	EPA 6010b	
Molybdenum	11	5.0	mg/kg	EPA 6010b	
Nickel	24	2.0	mg/kg	EPA 6010b	
Vanadium	37	5.0	mg/kg	EPA 6010b	
Zinc	62	1.0	mg/kg	EPA 6010b	

Sample ID: B6@10

Laboratory ID: T183753-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			

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Project Manager: Derrick Willis

Reported:
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Sample ID: B6@10

Laboratory ID: T183753-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	9.0	5.0	mg/kg	EPA 6010b	
Barium	110	1.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	12	2.0	mg/kg	EPA 6010b	
Copper	35	1.0	mg/kg	EPA 6010b	
Lead	9.5	3.0	mg/kg	EPA 6010b	
Molybdenum	12	5.0	mg/kg	EPA 6010b	
Nickel	22	2.0	mg/kg	EPA 6010b	
Vanadium	42	5.0	mg/kg	EPA 6010b	
Zinc	71	1.0	mg/kg	EPA 6010b	

Sample ID: B6@15

Laboratory ID: T183753-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	8.2	5.0	mg/kg	EPA 6010b	
Barium	71	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	15	2.0	mg/kg	EPA 6010b	
Copper	30	1.0	mg/kg	EPA 6010b	
Lead	11	3.0	mg/kg	EPA 6010b	
Molybdenum	11	5.0	mg/kg	EPA 6010b	
Nickel	19	2.0	mg/kg	EPA 6010b	
Vanadium	35	5.0	mg/kg	EPA 6010b	
Zinc	69	1.0	mg/kg	EPA 6010b	

Sample ID: B7@1

Laboratory ID: T183753-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	100	10	mg/kg	EPA 8015B	
Arsenic	9.0	5.0	mg/kg	EPA 6010b	
Barium	160	1.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	14	2.0	mg/kg	EPA 6010b	
Copper	30	1.0	mg/kg	EPA 6010b	
Lead	15	3.0	mg/kg	EPA 6010b	

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Sample ID: B7@1

Laboratory ID: T183753-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Molybdenum	10	5.0	mg/kg	EPA 6010b	
Nickel	28	2.0	mg/kg	EPA 6010b	
Vanadium	42	5.0	mg/kg	EPA 6010b	
Zinc	71	1.0	mg/kg	EPA 6010b	
Benzene	12	9.3	ug/kg	EPA 8260B/5035	M-02
Ethylbenzene	22	9.3	ug/kg	EPA 8260B/5035	M-02
m,p-Xylene	61	19	ug/kg	EPA 8260B/5035	M-02
o-Xylene	22	9.3	ug/kg	EPA 8260B/5035	M-02

Sample ID: B7@5

Laboratory ID: T183753-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	150	10	mg/kg	EPA 8015B	
Arsenic	8.8	5.0	mg/kg	EPA 6010b	
Barium	180	1.0	mg/kg	EPA 6010b	
Chromium	19	2.0	mg/kg	EPA 6010b	
Cobalt	15	2.0	mg/kg	EPA 6010b	
Copper	29	1.0	mg/kg	EPA 6010b	
Lead	9.1	3.0	mg/kg	EPA 6010b	
Molybdenum	11	5.0	mg/kg	EPA 6010b	
Nickel	30	2.0	mg/kg	EPA 6010b	
Vanadium	39	5.0	mg/kg	EPA 6010b	
Zinc	70	1.0	mg/kg	EPA 6010b	

Sample ID: B7@10

Laboratory ID: T183753-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	39	10	mg/kg	EPA 8015B	
Arsenic	9.1	5.0	mg/kg	EPA 6010b	
Barium	150	1.0	mg/kg	EPA 6010b	
Cadmium	11	2.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	16	2.0	mg/kg	EPA 6010b	
Copper	27	1.0	mg/kg	EPA 6010b	
Molybdenum	13	5.0	mg/kg	EPA 6010b	

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Sample ID: B7@10

Laboratory ID: T183753-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Nickel	33	2.0	mg/kg	EPA 6010b	
Vanadium	39	5.0	mg/kg	EPA 6010b	
Zinc	68	1.0	mg/kg	EPA 6010b	

Sample ID: B7@15

Laboratory ID: T183753-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	8.0	5.0	mg/kg	EPA 6010b	
Barium	120	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	11	2.0	mg/kg	EPA 6010b	
Copper	23	1.0	mg/kg	EPA 6010b	
Molybdenum	13	5.0	mg/kg	EPA 6010b	
Nickel	22	2.0	mg/kg	EPA 6010b	
Vanadium	34	5.0	mg/kg	EPA 6010b	
Zinc	58	1.0	mg/kg	EPA 6010b	

Sample ID: B8@1

Laboratory ID: T183753-14

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	120	10	mg/kg	EPA 8015B	
Arsenic	11	5.0	mg/kg	EPA 6010b	
Barium	140	1.0	mg/kg	EPA 6010b	
Chromium	17	2.0	mg/kg	EPA 6010b	
Cobalt	20	2.0	mg/kg	EPA 6010b	
Copper	31	1.0	mg/kg	EPA 6010b	
Lead	10	3.0	mg/kg	EPA 6010b	
Molybdenum	12	5.0	mg/kg	EPA 6010b	
Nickel	22	2.0	mg/kg	EPA 6010b	
Vanadium	38	5.0	mg/kg	EPA 6010b	
Zinc	72	1.0	mg/kg	EPA 6010b	
m,p-Xylene	23	16	ug/kg	EPA 8260B/5035	
o-Xylene	8.2	8.2	ug/kg	EPA 8260B/5035	

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Project Number: 2047.17.01
Project Manager: Derrick Willis

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Sample ID: B8@5

Laboratory ID: T183753-15

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C23-C32 (MORO)	510	10	mg/kg	EPA 8015B	
Arsenic	9.4	5.0	mg/kg	EPA 6010b	
Barium	130	1.0	mg/kg	EPA 6010b	
Chromium	18	2.0	mg/kg	EPA 6010b	
Cobalt	13	2.0	mg/kg	EPA 6010b	
Copper	35	1.0	mg/kg	EPA 6010b	
Lead	9.9	3.0	mg/kg	EPA 6010b	
Molybdenum	15	5.0	mg/kg	EPA 6010b	
Nickel	34	2.0	mg/kg	EPA 6010b	
Vanadium	42	5.0	mg/kg	EPA 6010b	
Zinc	71	1.0	mg/kg	EPA 6010b	
Mercury	0.12	0.10	mg/kg	EPA 7471A Soil	
Ethylbenzene	7.2	5.9	ug/kg	EPA 8260B/5035	

Sample ID: B8@9

Laboratory ID: T183753-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	9.9	5.0	mg/kg	EPA 6010b	
Barium	70	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	15	2.0	mg/kg	EPA 6010b	
Copper	30	1.0	mg/kg	EPA 6010b	
Lead	9.8	3.0	mg/kg	EPA 6010b	
Molybdenum	11	5.0	mg/kg	EPA 6010b	
Nickel	23	2.0	mg/kg	EPA 6010b	
Vanadium	37	5.0	mg/kg	EPA 6010b	
Zinc	76	1.0	mg/kg	EPA 6010b	
Ethylbenzene	10	5.7	ug/kg	EPA 8260B/5035	
m,p-Xylene	17	11	ug/kg	EPA 8260B/5035	
o-Xylene	5.8	5.7	ug/kg	EPA 8260B/5035	

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Project Number: 2047.17.01
Project Manager: Derrick Willis

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B5@1

T183753-01 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	500	ug/kg	1	8121930	12/19/18	12/27/18	EPA 8015B/5035	5035R
Surrogate: <i>a,a,a-Trifluorotoluene</i>		55.0 %	65-135		"	"	"	"	5035R, S-04

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	100	mg/kg	10	8122128	12/21/18	12/22/18	EPA 8015B	R-07
C23-C32 (MORO)	880	100	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		89.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.8	5.0	"	"	"	"	"	"	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	33	1.0	"	"	"	"	"	"	
Lead	210	3.0	"	"	"	"	"	"	
Molybdenum	9.4	5.0	"	"	"	"	"	"	
Nickel	24	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	40	5.0	"	"	"	"	"	"	
Zinc	81	1.0	"	"	"	"	"	"	

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T183753-01 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	50	ug/kg	10	8121923	12/19/18	12/26/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4'-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4'-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	50	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	200	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

64.8 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

100 %

35-140

"

"

"

"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

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B5@1

T183753-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	100	ug/kg	10	8122129	12/21/18	12/27/18	EPA 8082	R-07
PCB-1221	ND	100	"	"	"	"	"	"	R-07
PCB-1232	ND	100	"	"	"	"	"	"	R-07
PCB-1242	ND	100	"	"	"	"	"	"	R-07
PCB-1248	ND	100	"	"	"	"	"	"	R-07
PCB-1254	ND	100	"	"	"	"	"	"	R-07
PCB-1260	ND	100	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		109 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		97.8 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	7.6	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	7.6	"	"	"	"	"	"	
Bromodichloromethane	ND	7.6	"	"	"	"	"	"	
Bromoform	ND	7.6	"	"	"	"	"	"	
Bromomethane	ND	7.6	"	"	"	"	"	"	
n-Butylbenzene	ND	7.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	7.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	7.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	7.6	"	"	"	"	"	"	
Chlorobenzene	ND	7.6	"	"	"	"	"	"	
Chloroethane	ND	7.6	"	"	"	"	"	"	
Chloroform	ND	7.6	"	"	"	"	"	"	
Chloromethane	ND	7.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	7.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	7.6	"	"	"	"	"	"	
Dibromochloromethane	ND	7.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.6	"	"	"	"	"	"	
Dibromomethane	ND	7.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	7.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	7.6	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B5@1

T183753-01 (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

1,4-Dichlorobenzene	ND	7.6	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	7.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	7.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	7.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	7.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	7.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	7.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	7.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	7.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	7.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	7.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	7.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	7.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	7.6	"	"	"	"	"	"	
Isopropylbenzene	ND	7.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	7.6	"	"	"	"	"	"	
Methylene chloride	ND	7.6	"	"	"	"	"	"	
Naphthalene	ND	7.6	"	"	"	"	"	"	
n-Propylbenzene	ND	7.6	"	"	"	"	"	"	
Styrene	ND	7.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.6	"	"	"	"	"	"	
Tetrachloroethene	ND	7.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	7.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	7.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	7.6	"	"	"	"	"	"	
Trichloroethene	ND	7.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	7.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	7.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	7.6	"	"	"	"	"	"	

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T183753-01 (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

1,2,4-Trimethylbenzene	ND	7.6	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	7.6	"	"	"	"	"	"	
Benzene	ND	7.6	"	"	"	"	"	"	
Toluene	ND	7.6	"	"	"	"	"	"	
Ethylbenzene	ND	7.6	"	"	"	"	"	"	
m,p-Xylene	ND	15	"	"	"	"	"	"	
o-Xylene	ND	7.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.8 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300000	ug/kg	1000	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	1000000	"	"	"	"	"	"	R-07
Aniline	ND	300000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	1000000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	300000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthene	ND	300000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	300000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Pyrene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	300000	"	"	"	"	"	"	R-07
Anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	300000	"	"	"	"	"	"	R-07

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T183753-01 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000000	ug/kg	1000	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	300000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	300000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	300000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Chrysene	ND	300000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	300000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	300000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	300000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	1000000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	1000000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	300000	"	"	"	"	"	"	R-07
Fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Fluorene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	1500000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	1000000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	300000	"	"	"	"	"	"	R-07

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T183753-01 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300000	ug/kg	1000	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	300000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
Naphthalene	ND	300000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	1000000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	300000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
Phenanthrene	ND	300000	"	"	"	"	"	"	R-07
Azobenzene	ND	300000	"	"	"	"	"	"	R-07
Pyridine	ND	300000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		%	15-121		"	"	"	"	S-01
Surrogate: Phenol-d6		%	24-113		"	"	"	"	S-01
Surrogate: Nitrobenzene-d5		%	21.3-119		"	"	"	"	S-01
Surrogate: 2-Fluorobiphenyl		%	32.4-102		"	"	"	"	S-01
Surrogate: 2,4,6-Tribromophenol		%	18.1-105		"	"	"	"	S-01
Surrogate: Terphenyl-d14		%	29.1-130		"	"	"	"	S-01

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T183753-02 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	590	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		69.8 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	52	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		85.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	7.6	5.0	"	"	"	"	"	"	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	24	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	9.3	5.0	"	"	"	"	"	"	
Nickel	20	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	35	5.0	"	"	"	"	"	"	
Zinc	46	1.0	"	"	"	"	"	"	

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T183753-02 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121923	12/19/18	12/26/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

76.1 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

85.6 % 35-140

" " " "

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T183753-02 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		82.8 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		80.5 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.9	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.9	"	"	"	"	"	"	
Bromodichloromethane	ND	5.9	"	"	"	"	"	"	
Bromoform	ND	5.9	"	"	"	"	"	"	
Bromomethane	ND	5.9	"	"	"	"	"	"	
n-Butylbenzene	ND	5.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.9	"	"	"	"	"	"	
Chlorobenzene	ND	5.9	"	"	"	"	"	"	
Chloroethane	ND	5.9	"	"	"	"	"	"	
Chloroform	ND	5.9	"	"	"	"	"	"	
Chloromethane	ND	5.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.9	"	"	"	"	"	"	
Dibromochloromethane	ND	5.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.9	"	"	"	"	"	"	
Dibromomethane	ND	5.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.9	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B5@5

T183753-02 (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

1,4-Dichlorobenzene	ND	5.9	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.9	"	"	"	"	"	"	
Isopropylbenzene	ND	5.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.9	"	"	"	"	"	"	
Methylene chloride	ND	5.9	"	"	"	"	"	"	
Naphthalene	ND	5.9	"	"	"	"	"	"	
n-Propylbenzene	ND	5.9	"	"	"	"	"	"	
Styrene	ND	5.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.9	"	"	"	"	"	"	
Tetrachloroethene	ND	5.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.9	"	"	"	"	"	"	
Trichloroethene	ND	5.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.9	"	"	"	"	"	"	

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T183753-02 (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

1,2,4-Trimethylbenzene	ND	5.9	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	5.9	"	"	"	"	"	"	
Benzene	ND	5.9	"	"	"	"	"	"	
Toluene	ND	5.9	"	"	"	"	"	"	
Ethylbenzene	5.9	5.9	"	"	"	"	"	"	
m,p-Xylene	ND	12	"	"	"	"	"	"	
o-Xylene	ND	5.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.4 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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T183753-02 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

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T183753-02 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	46.0 %	15-121			"	"	"	"	
Surrogate: Phenol-d6	33.0 %	24-113			"	"	"	"	
Surrogate: Nitrobenzene-d5	53.0 %	21.3-119			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	55.0 %	32.4-102			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	41.0 %	18.1-105			"	"	"	"	
Surrogate: Terphenyl-d14	86.0 %	29.1-130			"	"	"	"	

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T183753-03 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	510	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
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Surrogate: *a,a,a-Trifluorotoluene* 68.1 % 65-135 " " " "

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p-Terphenyl* 75.1 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.2	5.0	"	"	"	"	"	"	
Barium	56	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	11	5.0	"	"	"	"	"	"	
Nickel	22	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	60	1.0	"	"	"	"	"	"	

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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121923	12/19/18	12/26/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

74.2 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

83.8 %

35-140

"

"

"

"

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		76.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		76.7 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.6	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	4.6	"	"	"	"	"	"	
Bromodichloromethane	ND	4.6	"	"	"	"	"	"	
Bromoform	ND	4.6	"	"	"	"	"	"	
Bromomethane	ND	4.6	"	"	"	"	"	"	
n-Butylbenzene	ND	4.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.6	"	"	"	"	"	"	
Chlorobenzene	ND	4.6	"	"	"	"	"	"	
Chloroethane	ND	4.6	"	"	"	"	"	"	
Chloroform	ND	4.6	"	"	"	"	"	"	
Chloromethane	ND	4.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.6	"	"	"	"	"	"	
Dibromochloromethane	ND	4.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	9.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.6	"	"	"	"	"	"	
Dibromomethane	ND	4.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.6	"	"	"	"	"	"	

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T183753-03 (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

1,4-Dichlorobenzene	ND	4.6	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	4.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.6	"	"	"	"	"	"	
Isopropylbenzene	ND	4.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.6	"	"	"	"	"	"	
Methylene chloride	ND	4.6	"	"	"	"	"	"	
Naphthalene	ND	4.6	"	"	"	"	"	"	
n-Propylbenzene	ND	4.6	"	"	"	"	"	"	
Styrene	ND	4.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.6	"	"	"	"	"	"	
Tetrachloroethene	ND	4.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.6	"	"	"	"	"	"	
Trichloroethene	ND	4.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.6	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

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T183753-03 (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

1,2,4-Trimethylbenzene	ND	4.6	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	4.6	"	"	"	"	"	"	
Benzene	ND	4.6	"	"	"	"	"	"	
Toluene	ND	4.6	"	"	"	"	"	"	
Ethylbenzene	ND	4.6	"	"	"	"	"	"	
m,p-Xylene	ND	9.3	"	"	"	"	"	"	
o-Xylene	ND	4.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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T183753-03 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

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T183753-03 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	42.0 %	15-121			"	"	"	"	
Surrogate: Phenol-d6	23.0 %	24-113			"	"	"	"	S-01
Surrogate: Nitrobenzene-d5	52.0 %	21.3-119			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	68.0 %	32.4-102			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	29.0 %	18.1-105			"	"	"	"	
Surrogate: Terphenyl-d14	92.0 %	29.1-130			"	"	"	"	

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T183753-04 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	460	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		67.2 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		83.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	21	5.0	"	"	"	"	"	"	
Barium	63	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	22	2.0	"	"	"	"	"	"	
Cobalt	15	2.0	"	"	"	"	"	"	
Copper	50	1.0	"	"	"	"	"	"	
Lead	9.4	3.0	"	"	"	"	"	"	
Molybdenum	19	5.0	"	"	"	"	"	"	
Nickel	33	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	58	5.0	"	"	"	"	"	"	
Zinc	97	1.0	"	"	"	"	"	"	

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.1	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.1	"	"	"	"	"	"	
Bromodichloromethane	ND	5.1	"	"	"	"	"	"	
Bromoform	ND	5.1	"	"	"	"	"	"	
Bromomethane	ND	5.1	"	"	"	"	"	"	
n-Butylbenzene	ND	5.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.1	"	"	"	"	"	"	
Chlorobenzene	ND	5.1	"	"	"	"	"	"	
Chloroethane	ND	5.1	"	"	"	"	"	"	
Chloroform	ND	5.1	"	"	"	"	"	"	
Chloromethane	ND	5.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.1	"	"	"	"	"	"	
Dibromochloromethane	ND	5.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.1	"	"	"	"	"	"	
Dibromomethane	ND	5.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	

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T183753-04 (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-Dichloropropane	ND	5.1	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	5.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.1	"	"	"	"	"	"	
Isopropylbenzene	ND	5.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.1	"	"	"	"	"	"	
Methylene chloride	ND	5.1	"	"	"	"	"	"	
Naphthalene	ND	5.1	"	"	"	"	"	"	
n-Propylbenzene	ND	5.1	"	"	"	"	"	"	
Styrene	ND	5.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.1	"	"	"	"	"	"	
Tetrachloroethene	ND	5.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.1	"	"	"	"	"	"	
Trichloroethene	ND	5.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.1	"	"	"	"	"	"	
Vinyl chloride	ND	5.1	"	"	"	"	"	"	
Benzene	ND	5.1	"	"	"	"	"	"	
Toluene	ND	5.1	"	"	"	"	"	"	
Ethylbenzene	6.7	5.1	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.1	"	"	"	"	"	"	

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T183753-04 (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

Surrogate: Toluene-d8	92.8 %	76.1-127	8121928	12/19/18	12/21/18	EPA 8260B/5035
Surrogate: 4-Bromofluorobenzene	96.5 %	85.9-114	"	"	"	"
Surrogate: Dibromofluoromethane	97.6 %	77.8-142	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Phenol	ND	1000	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B5@15

T183753-04 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Reported:
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B5@15

T183753-04 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Nitroaniline	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	62.8 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	60.8 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	63.7 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	68.7 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	88.6 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	99.3 %	29.1-130	"	"	"	"	"	"

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B5@17

T183753-05 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	530	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		80.9 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		85.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.3	5.0	"	"	"	"	"	"	
Barium	63	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	15	2.0	"	"	"	"	"	"	
Cobalt	12	2.0	"	"	"	"	"	"	
Copper	23	1.0	"	"	"	"	"	"	
Lead	8.9	3.0	"	"	"	"	"	"	
Molybdenum	11	5.0	"	"	"	"	"	"	
Nickel	20	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	31	5.0	"	"	"	"	"	"	
Zinc	60	1.0	"	"	"	"	"	"	

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B5@17

T183753-05 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.2	"	"	"	"	"	"	
Bromodichloromethane	ND	5.2	"	"	"	"	"	"	
Bromoform	ND	5.2	"	"	"	"	"	"	
Bromomethane	ND	5.2	"	"	"	"	"	"	
n-Butylbenzene	ND	5.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.2	"	"	"	"	"	"	
Chlorobenzene	ND	5.2	"	"	"	"	"	"	
Chloroethane	ND	5.2	"	"	"	"	"	"	
Chloroform	ND	5.2	"	"	"	"	"	"	
Chloromethane	ND	5.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.2	"	"	"	"	"	"	
Dibromochloromethane	ND	5.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.2	"	"	"	"	"	"	
Dibromomethane	ND	5.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B5@17

T183753-05 (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-Dichloropropane	ND	5.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	5.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.2	"	"	"	"	"	"	
Isopropylbenzene	ND	5.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.2	"	"	"	"	"	"	
Methylene chloride	ND	5.2	"	"	"	"	"	"	
Naphthalene	ND	5.2	"	"	"	"	"	"	
n-Propylbenzene	ND	5.2	"	"	"	"	"	"	
Styrene	ND	5.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	
Tetrachloroethene	ND	5.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.2	"	"	"	"	"	"	
Trichloroethene	ND	5.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	
Vinyl chloride	ND	5.2	"	"	"	"	"	"	
Benzene	ND	5.2	"	"	"	"	"	"	
Toluene	ND	5.2	"	"	"	"	"	"	
Ethylbenzene	ND	5.2	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.2	"	"	"	"	"	"	

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B5@17

T183753-05 (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

Surrogate: Toluene-d8	93.3 %	76.1-127	8121928	12/19/18	12/21/18	EPA 8260B/5035
Surrogate: 4-Bromofluorobenzene	103 %	85.9-114	"	"	"	"
Surrogate: Dibromofluoromethane	95.7 %	77.8-142	"	"	"	"

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Reported:
01/09/19 14:59

B6@1

T183753-06 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	480	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		75.0 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		93.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.1	5.0	"	"	"	"	"	"	
Barium	120	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	17	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	25	1.0	"	"	"	"	"	"	
Lead	8.8	3.0	"	"	"	"	"	"	
Molybdenum	8.3	5.0	"	"	"	"	"	"	
Nickel	25	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	43	5.0	"	"	"	"	"	"	
Zinc	48	1.0	"	"	"	"	"	"	

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B6@1

T183753-06 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	25	ug/kg	5	8121923	12/19/18	12/26/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	25	"	"	"	"	"	"	R-07
beta-BHC	ND	25	"	"	"	"	"	"	R-07
delta-BHC	ND	25	"	"	"	"	"	"	R-07
Heptachlor	ND	25	"	"	"	"	"	"	R-07
Aldrin	ND	25	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	25	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	25	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	25	"	"	"	"	"	"	R-07
Endosulfan I	ND	25	"	"	"	"	"	"	R-07
4,4'-DDE	ND	25	"	"	"	"	"	"	R-07
Dieldrin	ND	25	"	"	"	"	"	"	R-07
Endrin	ND	25	"	"	"	"	"	"	R-07
4,4'-DDD	ND	25	"	"	"	"	"	"	R-07
Endosulfan II	ND	25	"	"	"	"	"	"	R-07
4,4'-DDT	ND	25	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	25	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	25	"	"	"	"	"	"	R-07
Methoxychlor	ND	25	"	"	"	"	"	"	R-07
Endrin ketone	ND	25	"	"	"	"	"	"	R-07
Toxaphene	ND	100	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

64.2 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

77.1 %

35-140

"

"

"

"

SunStar Laboratories, Inc.

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Reported:
01/09/19 14:59

B6@1

T183753-06 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		84.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		77.6 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.5	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	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	9.1	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B6@1

T183753-06 (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

1,4-Dichlorobenzene	ND	4.5	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
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	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
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	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	

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T183753-06 (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

1,2,4-Trimethylbenzene	ND	4.5	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Benzene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	9.1	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.0 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	3000	ug/kg	10	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	10000	"	"	"	"	"	"	R-07
Aniline	ND	3000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	10000	"	"	"	"	"	"	R-07
Pyrene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	3000	"	"	"	"	"	"	R-07
Anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	3000	"	"	"	"	"	"	R-07

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T183753-06 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	10000	ug/kg	10	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Chrysene	ND	3000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	3000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Fluorene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	3000	"	"	"	"	"	"	R-07

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T183753-06 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	3000	ug/kg	10	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
Phenanthrene	ND	3000	"	"	"	"	"	"	R-07
Azobenzene	ND	3000	"	"	"	"	"	"	R-07
Pyridine	ND	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	53.0 %		15-121		"	"	"	"	
Surrogate: Phenol-d6	50.1 %		24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5	50.5 %		21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	40.7 %		32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	62.8 %		18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14	89.3 %		29.1-130		"	"	"	"	

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T183753-07 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	530	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		72.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	110	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		89.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.9	5.0	"	"	"	"	"	"	
Barium	650	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	11	5.0	"	"	"	"	"	"	
Nickel	24	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	62	1.0	"	"	"	"	"	"	

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	50	ug/kg	10	8121923	12/19/18	12/26/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4'-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4'-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	50	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	200	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

66.7 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

91.7 %

35-140

"

"

"

"

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T183753-07 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		82.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		71.9 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.1	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.1	"	"	"	"	"	"	
Bromodichloromethane	ND	5.1	"	"	"	"	"	"	
Bromoform	ND	5.1	"	"	"	"	"	"	
Bromomethane	ND	5.1	"	"	"	"	"	"	
n-Butylbenzene	ND	5.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.1	"	"	"	"	"	"	
Chlorobenzene	ND	5.1	"	"	"	"	"	"	
Chloroethane	ND	5.1	"	"	"	"	"	"	
Chloroform	ND	5.1	"	"	"	"	"	"	
Chloromethane	ND	5.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.1	"	"	"	"	"	"	
Dibromochloromethane	ND	5.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.1	"	"	"	"	"	"	
Dibromomethane	ND	5.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	

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T183753-07 (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

1,4-Dichlorobenzene	ND	5.1	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.1	"	"	"	"	"	"	
Isopropylbenzene	ND	5.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.1	"	"	"	"	"	"	
Methylene chloride	ND	5.1	"	"	"	"	"	"	
Naphthalene	ND	5.1	"	"	"	"	"	"	
n-Propylbenzene	ND	5.1	"	"	"	"	"	"	
Styrene	ND	5.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.1	"	"	"	"	"	"	
Tetrachloroethene	ND	5.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.1	"	"	"	"	"	"	
Trichloroethene	ND	5.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.1	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

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B6@5

T183753-07 (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

1,2,4-Trimethylbenzene	ND	5.1	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	5.1	"	"	"	"	"	"	
Benzene	ND	5.1	"	"	"	"	"	"	
Toluene	ND	5.1	"	"	"	"	"	"	
Ethylbenzene	ND	5.1	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300000	ug/kg	1000	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	1000000	"	"	"	"	"	"	R-07
Aniline	ND	300000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	1000000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	300000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthene	ND	300000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	300000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Pyrene	ND	300000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	300000	"	"	"	"	"	"	R-07
Anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	300000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	300000	"	"	"	"	"	"	R-07

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T183753-07 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000000	ug/kg	1000	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	300000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	300000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	300000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	300000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	300000	"	"	"	"	"	"	R-07
Chrysene	ND	300000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	300000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	300000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	300000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	300000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	1000000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	300000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	1000000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	1000000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	1000000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	300000	"	"	"	"	"	"	R-07
Fluoranthene	ND	300000	"	"	"	"	"	"	R-07
Fluorene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	1500000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	300000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	1000000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	300000	"	"	"	"	"	"	R-07

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T183753-07 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300000	ug/kg	1000	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	300000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	1000000	"	"	"	"	"	"	R-07
Naphthalene	ND	300000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	300000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	1000000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	1000000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	300000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	300000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	300000	"	"	"	"	"	"	R-07
Phenanthrene	ND	300000	"	"	"	"	"	"	R-07
Azobenzene	ND	300000	"	"	"	"	"	"	R-07
Pyridine	ND	300000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	1000000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		%	15-121		"	"	"	"	S-01
Surrogate: Phenol-d6		%	24-113		"	"	"	"	S-01
Surrogate: Nitrobenzene-d5		%	21.3-119		"	"	"	"	S-01
Surrogate: 2-Fluorobiphenyl		%	32.4-102		"	"	"	"	S-01
Surrogate: 2,4,6-Tribromophenol		%	18.1-105		"	"	"	"	S-01
Surrogate: Terphenyl-d14		%	29.1-130		"	"	"	"	S-01

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T183753-08 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	560	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		72.4 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		86.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.0	5.0	"	"	"	"	"	"	
Barium	110	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	12	2.0	"	"	"	"	"	"	
Copper	35	1.0	"	"	"	"	"	"	
Lead	9.5	3.0	"	"	"	"	"	"	
Molybdenum	12	5.0	"	"	"	"	"	"	
Nickel	22	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	42	5.0	"	"	"	"	"	"	
Zinc	71	1.0	"	"	"	"	"	"	

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T183753-08 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121923	12/19/18	12/26/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

70.6 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

79.8 % 35-140

" " " "

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T183753-08 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.4 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		74.3 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.3	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.3	"	"	"	"	"	"	
Bromodichloromethane	ND	5.3	"	"	"	"	"	"	
Bromoform	ND	5.3	"	"	"	"	"	"	
Bromomethane	ND	5.3	"	"	"	"	"	"	
n-Butylbenzene	ND	5.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.3	"	"	"	"	"	"	
Chlorobenzene	ND	5.3	"	"	"	"	"	"	
Chloroethane	ND	5.3	"	"	"	"	"	"	
Chloroform	ND	5.3	"	"	"	"	"	"	
Chloromethane	ND	5.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.3	"	"	"	"	"	"	
Dibromochloromethane	ND	5.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.3	"	"	"	"	"	"	
Dibromomethane	ND	5.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.3	"	"	"	"	"	"	

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T183753-08 (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

1,4-Dichlorobenzene	ND	5.3	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.3	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.3	"	"	"	"	"	"	
Isopropylbenzene	ND	5.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.3	"	"	"	"	"	"	
Methylene chloride	ND	5.3	"	"	"	"	"	"	
Naphthalene	ND	5.3	"	"	"	"	"	"	
n-Propylbenzene	ND	5.3	"	"	"	"	"	"	
Styrene	ND	5.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.3	"	"	"	"	"	"	
Tetrachloroethene	ND	5.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.3	"	"	"	"	"	"	
Trichloroethene	ND	5.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.3	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B6@10

T183753-08 (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

1,2,4-Trimethylbenzene	ND	5.3	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	5.3	"	"	"	"	"	"	
Benzene	ND	5.3	"	"	"	"	"	"	
Toluene	ND	5.3	"	"	"	"	"	"	
Ethylbenzene	ND	5.3	"	"	"	"	"	"	
m,p-Xylene	ND	11	"	"	"	"	"	"	
o-Xylene	ND	5.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B6@10

T183753-08 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"

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01/09/19 14:59

B6@10

T183753-08 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	61.4 %	15-121			"	"	"	"
Surrogate: Phenol-d6	60.9 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	63.9 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	66.6 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	91.0 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	98.4 %	29.1-130			"	"	"	"

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B6@15

T183753-09 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	500	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035
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Surrogate: *a,a,a-Trifluorotoluene* 80.0 % 65-135 " " " "

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B
C23-C32 (MORO)	ND	10	"	"	"	"	"	"

Surrogate: *p-Terphenyl* 85.1 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b
Silver	ND	2.0	"	"	"	"	"	"
Arsenic	8.2	5.0	"	"	"	"	"	"
Barium	71	1.0	"	"	"	"	"	"
Beryllium	ND	1.0	"	"	"	"	"	"
Cadmium	ND	2.0	"	"	"	"	"	"
Chromium	16	2.0	"	"	"	"	"	"
Cobalt	15	2.0	"	"	"	"	"	"
Copper	30	1.0	"	"	"	"	"	"
Lead	11	3.0	"	"	"	"	"	"
Molybdenum	11	5.0	"	"	"	"	"	"
Nickel	19	2.0	"	"	"	"	"	"
Selenium	ND	5.0	"	"	"	"	"	"
Thallium	ND	2.0	"	"	"	"	"	"
Vanadium	35	5.0	"	"	"	"	"	"
Zinc	69	1.0	"	"	"	"	"	"

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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.1	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.1	"	"	"	"	"	"	
Bromodichloromethane	ND	5.1	"	"	"	"	"	"	
Bromoform	ND	5.1	"	"	"	"	"	"	
Bromomethane	ND	5.1	"	"	"	"	"	"	
n-Butylbenzene	ND	5.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.1	"	"	"	"	"	"	
Chlorobenzene	ND	5.1	"	"	"	"	"	"	
Chloroethane	ND	5.1	"	"	"	"	"	"	
Chloroform	ND	5.1	"	"	"	"	"	"	
Chloromethane	ND	5.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.1	"	"	"	"	"	"	
Dibromochloromethane	ND	5.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.1	"	"	"	"	"	"	
Dibromomethane	ND	5.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	

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T183753-09 (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-Dichloropropane	ND	5.1	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	5.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.1	"	"	"	"	"	"	
Isopropylbenzene	ND	5.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.1	"	"	"	"	"	"	
Methylene chloride	ND	5.1	"	"	"	"	"	"	
Naphthalene	ND	5.1	"	"	"	"	"	"	
n-Propylbenzene	ND	5.1	"	"	"	"	"	"	
Styrene	ND	5.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.1	"	"	"	"	"	"	
Tetrachloroethene	ND	5.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.1	"	"	"	"	"	"	
Trichloroethene	ND	5.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.1	"	"	"	"	"	"	
Vinyl chloride	ND	5.1	"	"	"	"	"	"	
Benzene	ND	5.1	"	"	"	"	"	"	
Toluene	ND	5.1	"	"	"	"	"	"	
Ethylbenzene	ND	5.1	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.1	"	"	"	"	"	"	

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T183753-09 (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

Surrogate: Toluene-d8	94.0 %	76.1-127	8121928	12/19/18	12/21/18	EPA 8260B/5035
Surrogate: 4-Bromofluorobenzene	103 %	85.9-114	"	"	"	"
Surrogate: Dibromofluoromethane	99.1 %	77.8-142	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Phenol	ND	1000	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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T183753-09 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B6@15

T183753-09 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Nitroaniline	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	45.7 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	43.9 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	47.9 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	52.4 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	67.5 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	80.1 %	29.1-130	"	"	"	"	"	"

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Reported:
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B7@1

T183753-10 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	720	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		71.9 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	100	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		80.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.0	5.0	"	"	"	"	"	"	
Barium	160	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	14	2.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	15	3.0	"	"	"	"	"	"	
Molybdenum	10	5.0	"	"	"	"	"	"	
Nickel	28	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	42	5.0	"	"	"	"	"	"	
Zinc	71	1.0	"	"	"	"	"	"	

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T183753-10 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	25	ug/kg	5	8121923	12/19/18	12/26/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	25	"	"	"	"	"	"	R-07
beta-BHC	ND	25	"	"	"	"	"	"	R-07
delta-BHC	ND	25	"	"	"	"	"	"	R-07
Heptachlor	ND	25	"	"	"	"	"	"	R-07
Aldrin	ND	25	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	25	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	25	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	25	"	"	"	"	"	"	R-07
Endosulfan I	ND	25	"	"	"	"	"	"	R-07
4,4'-DDE	ND	25	"	"	"	"	"	"	R-07
Dieldrin	ND	25	"	"	"	"	"	"	R-07
Endrin	ND	25	"	"	"	"	"	"	R-07
4,4'-DDD	ND	25	"	"	"	"	"	"	R-07
Endosulfan II	ND	25	"	"	"	"	"	"	R-07
4,4'-DDT	ND	25	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	25	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	25	"	"	"	"	"	"	R-07
Methoxychlor	ND	25	"	"	"	"	"	"	R-07
Endrin ketone	ND	25	"	"	"	"	"	"	R-07
Toxaphene	ND	100	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

72.5 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

102 %

35-140

"

"

"

"

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B7@1

T183753-10 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		78.9 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		74.8 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	9.3	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	M-02
Bromochloromethane	ND	9.3	"	"	"	"	"	"	M-02
Bromodichloromethane	ND	9.3	"	"	"	"	"	"	M-02
Bromoform	ND	9.3	"	"	"	"	"	"	M-02
Bromomethane	ND	9.3	"	"	"	"	"	"	M-02
n-Butylbenzene	ND	9.3	"	"	"	"	"	"	M-02
sec-Butylbenzene	ND	9.3	"	"	"	"	"	"	M-02
tert-Butylbenzene	ND	9.3	"	"	"	"	"	"	M-02
Carbon tetrachloride	ND	9.3	"	"	"	"	"	"	M-02
Chlorobenzene	ND	9.3	"	"	"	"	"	"	M-02
Chloroethane	ND	9.3	"	"	"	"	"	"	M-02
Chloroform	ND	9.3	"	"	"	"	"	"	M-02
Chloromethane	ND	9.3	"	"	"	"	"	"	M-02
2-Chlorotoluene	ND	9.3	"	"	"	"	"	"	M-02
4-Chlorotoluene	ND	9.3	"	"	"	"	"	"	M-02
Dibromochloromethane	ND	9.3	"	"	"	"	"	"	M-02
1,2-Dibromo-3-chloropropane	ND	19	"	"	"	"	"	"	M-02
1,2-Dibromoethane (EDB)	ND	9.3	"	"	"	"	"	"	M-02
Dibromomethane	ND	9.3	"	"	"	"	"	"	M-02
1,2-Dichlorobenzene	ND	9.3	"	"	"	"	"	"	M-02
1,3-Dichlorobenzene	ND	9.3	"	"	"	"	"	"	M-02

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B7@1

T183753-10 (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

1,4-Dichlorobenzene	ND	9.3	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	M-02
Dichlorodifluoromethane	ND	9.3	"	"	"	"	"	"	M-02
1,1-Dichloroethane	ND	9.3	"	"	"	"	"	"	M-02
1,2-Dichloroethane	ND	9.3	"	"	"	"	"	"	M-02
1,1-Dichloroethene	ND	9.3	"	"	"	"	"	"	M-02
cis-1,2-Dichloroethene	ND	9.3	"	"	"	"	"	"	M-02
trans-1,2-Dichloroethene	ND	9.3	"	"	"	"	"	"	M-02
1,2-Dichloropropane	ND	9.3	"	"	"	"	"	"	M-02
1,3-Dichloropropane	ND	9.3	"	"	"	"	"	"	M-02
2,2-Dichloropropane	ND	9.3	"	"	"	"	"	"	M-02
1,1-Dichloropropene	ND	9.3	"	"	"	"	"	"	M-02
cis-1,3-Dichloropropene	ND	9.3	"	"	"	"	"	"	M-02
trans-1,3-Dichloropropene	ND	9.3	"	"	"	"	"	"	M-02
Hexachlorobutadiene	ND	9.3	"	"	"	"	"	"	M-02
Isopropylbenzene	ND	9.3	"	"	"	"	"	"	M-02
p-Isopropyltoluene	ND	9.3	"	"	"	"	"	"	M-02
Methylene chloride	ND	9.3	"	"	"	"	"	"	M-02
Naphthalene	ND	9.3	"	"	"	"	"	"	M-02
n-Propylbenzene	ND	9.3	"	"	"	"	"	"	M-02
Styrene	ND	9.3	"	"	"	"	"	"	M-02
1,1,2,2-Tetrachloroethane	ND	9.3	"	"	"	"	"	"	M-02
1,1,1,2-Tetrachloroethane	ND	9.3	"	"	"	"	"	"	M-02
Tetrachloroethene	ND	9.3	"	"	"	"	"	"	M-02
1,2,3-Trichlorobenzene	ND	9.3	"	"	"	"	"	"	M-02
1,2,4-Trichlorobenzene	ND	9.3	"	"	"	"	"	"	M-02
1,1,2-Trichloroethane	ND	9.3	"	"	"	"	"	"	M-02
1,1,1-Trichloroethane	ND	9.3	"	"	"	"	"	"	M-02
Trichloroethene	ND	9.3	"	"	"	"	"	"	M-02
Trichlorofluoromethane	ND	9.3	"	"	"	"	"	"	M-02
1,2,3-Trichloropropane	ND	9.3	"	"	"	"	"	"	M-02
1,3,5-Trimethylbenzene	ND	9.3	"	"	"	"	"	"	M-02

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B7@1

T183753-10 (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

1,2,4-Trimethylbenzene	ND	9.3	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	M-02
Vinyl chloride	ND	9.3	"	"	"	"	"	"	M-02
Benzene	12	9.3	"	"	"	"	"	"	M-02
Toluene	ND	9.3	"	"	"	"	"	"	M-02
Ethylbenzene	22	9.3	"	"	"	"	"	"	M-02
m,p-Xylene	61	19	"	"	"	"	"	"	M-02
o-Xylene	22	9.3	"	"	"	"	"	"	M-02
Surrogate: Toluene-d8		94.8 %	76.1-127		"	"	"	"	M-02
Surrogate: 4-Bromofluorobenzene		98.0 %	85.9-114		"	"	"	"	M-02
Surrogate: Dibromofluoromethane		92.0 %	77.8-142		"	"	"	"	M-02

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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T183753-10 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
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Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B7@1

T183753-10 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	49.0 %	15-121			"	"	"	"	
Surrogate: Phenol-d6	25.0 %	24-113			"	"	"	"	
Surrogate: Nitrobenzene-d5	51.0 %	21.3-119			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.0 %	32.4-102			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	35.0 %	18.1-105			"	"	"	"	
Surrogate: Terphenyl-d14	107 %	29.1-130			"	"	"	"	

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Project: Holland Sunset
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Reported:
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B7@5

T183753-11 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	640	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		77.2 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	150	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		80.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.8	5.0	"	"	"	"	"	"	
Barium	180	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	15	2.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	9.1	3.0	"	"	"	"	"	"	
Molybdenum	11	5.0	"	"	"	"	"	"	
Nickel	30	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	39	5.0	"	"	"	"	"	"	
Zinc	70	1.0	"	"	"	"	"	"	

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	25	ug/kg	5	8121923	12/19/18	12/26/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	25	"	"	"	"	"	"	R-07
beta-BHC	ND	25	"	"	"	"	"	"	R-07
delta-BHC	ND	25	"	"	"	"	"	"	R-07
Heptachlor	ND	25	"	"	"	"	"	"	R-07
Aldrin	ND	25	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	25	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	25	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	25	"	"	"	"	"	"	R-07
Endosulfan I	ND	25	"	"	"	"	"	"	R-07
4,4'-DDE	ND	25	"	"	"	"	"	"	R-07
Dieldrin	ND	25	"	"	"	"	"	"	R-07
Endrin	ND	25	"	"	"	"	"	"	R-07
4,4'-DDD	ND	25	"	"	"	"	"	"	R-07
Endosulfan II	ND	25	"	"	"	"	"	"	R-07
4,4'-DDT	ND	25	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	25	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	25	"	"	"	"	"	"	R-07
Methoxychlor	ND	25	"	"	"	"	"	"	R-07
Endrin ketone	ND	25	"	"	"	"	"	"	R-07
Toxaphene	ND	100	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

72.9 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

87.6 % 35-140

" " " "

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T183753-11 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		76.8 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		72.7 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.7	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.7	"	"	"	"	"	"	
Bromodichloromethane	ND	5.7	"	"	"	"	"	"	
Bromoform	ND	5.7	"	"	"	"	"	"	
Bromomethane	ND	5.7	"	"	"	"	"	"	
n-Butylbenzene	ND	5.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.7	"	"	"	"	"	"	
Chlorobenzene	ND	5.7	"	"	"	"	"	"	
Chloroethane	ND	5.7	"	"	"	"	"	"	
Chloroform	ND	5.7	"	"	"	"	"	"	
Chloromethane	ND	5.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.7	"	"	"	"	"	"	
Dibromochloromethane	ND	5.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.7	"	"	"	"	"	"	
Dibromomethane	ND	5.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.7	"	"	"	"	"	"	

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T183753-11 (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

1,4-Dichlorobenzene	ND	5.7	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.7	"	"	"	"	"	"	
Isopropylbenzene	ND	5.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.7	"	"	"	"	"	"	
Methylene chloride	ND	5.7	"	"	"	"	"	"	
Naphthalene	ND	5.7	"	"	"	"	"	"	
n-Propylbenzene	ND	5.7	"	"	"	"	"	"	
Styrene	ND	5.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.7	"	"	"	"	"	"	
Tetrachloroethene	ND	5.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.7	"	"	"	"	"	"	
Trichloroethene	ND	5.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.7	"	"	"	"	"	"	

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T183753-11 (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

1,2,4-Trimethylbenzene	ND	5.7	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	5.7	"	"	"	"	"	"	
Benzene	ND	5.7	"	"	"	"	"	"	
Toluene	ND	5.7	"	"	"	"	"	"	
Ethylbenzene	ND	5.7	"	"	"	"	"	"	
m,p-Xylene	ND	11	"	"	"	"	"	"	
o-Xylene	ND	5.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.8 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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T183753-11 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

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T183753-11 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	44.0 %		15-121		"	"	"	"	
Surrogate: Phenol-d6	29.0 %		24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5	48.0 %		21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	59.0 %		32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	%		18.1-105		"	"	"	"	S-01
Surrogate: Terphenyl-d14	90.0 %		29.1-130		"	"	"	"	R-07

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

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T183753-12 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	710	ug/kg	1	8121930	12/19/18	12/26/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		91.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	39	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		72.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.1	5.0	"	"	"	"	"	"	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	11	2.0	"	"	"	"	12/19/18	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	16	2.0	"	"	"	"	"	"	
Copper	27	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	13	5.0	"	"	"	"	"	"	
Nickel	33	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	39	5.0	"	"	"	"	"	"	
Zinc	68	1.0	"	"	"	"	"	"	

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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121923	12/19/18	12/26/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

88.6 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

92.9 % 35-140

" " " "

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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		74.6 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		77.1 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.2	"	"	"	"	"	"	
Bromodichloromethane	ND	5.2	"	"	"	"	"	"	
Bromoform	ND	5.2	"	"	"	"	"	"	
Bromomethane	ND	5.2	"	"	"	"	"	"	
n-Butylbenzene	ND	5.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.2	"	"	"	"	"	"	
Chlorobenzene	ND	5.2	"	"	"	"	"	"	
Chloroethane	ND	5.2	"	"	"	"	"	"	
Chloroform	ND	5.2	"	"	"	"	"	"	
Chloromethane	ND	5.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.2	"	"	"	"	"	"	
Dibromochloromethane	ND	5.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.2	"	"	"	"	"	"	
Dibromomethane	ND	5.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.2	"	"	"	"	"	"	

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T183753-12 (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

1,4-Dichlorobenzene	ND	5.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.2	"	"	"	"	"	"	
Isopropylbenzene	ND	5.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.2	"	"	"	"	"	"	
Methylene chloride	ND	5.2	"	"	"	"	"	"	
Naphthalene	ND	5.2	"	"	"	"	"	"	
n-Propylbenzene	ND	5.2	"	"	"	"	"	"	
Styrene	ND	5.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.2	"	"	"	"	"	"	
Tetrachloroethene	ND	5.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.2	"	"	"	"	"	"	
Trichloroethene	ND	5.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.2	"	"	"	"	"	"	

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T183753-12 (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

1,2,4-Trimethylbenzene	ND	5.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	5.2	"	"	"	"	"	"	
Benzene	ND	5.2	"	"	"	"	"	"	
Toluene	ND	5.2	"	"	"	"	"	"	
Ethylbenzene	ND	5.2	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	3000	ug/kg	10	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	10000	"	"	"	"	"	"	R-07
Aniline	ND	3000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	10000	"	"	"	"	"	"	R-07
Pyrene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	3000	"	"	"	"	"	"	R-07
Anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	3000	"	"	"	"	"	"	R-07

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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	10000	ug/kg	10	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Chrysene	ND	3000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	3000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Fluorene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	3000	"	"	"	"	"	"	R-07

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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	3000	ug/kg	10	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
Phenanthrene	ND	3000	"	"	"	"	"	"	R-07
Azobenzene	ND	3000	"	"	"	"	"	"	R-07
Pyridine	ND	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		50.5 %		15-121	"	"	"	"	
Surrogate: Phenol-d6		46.4 %		24-113	"	"	"	"	
Surrogate: Nitrobenzene-d5		53.1 %		21.3-119	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		69.2 %		32.4-102	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		63.7 %		18.1-105	"	"	"	"	
Surrogate: Terphenyl-d14		79.5 %		29.1-130	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B7@15

T183753-13 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	550	ug/kg	1	8121930	12/19/18	12/27/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		80.3 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		78.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.0	5.0	"	"	"	"	"	"	
Barium	120	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	23	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	13	5.0	"	"	"	"	"	"	
Nickel	22	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	34	5.0	"	"	"	"	"	"	
Zinc	58	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B7@15

T183753-13 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	6.4	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	6.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.4	"	"	"	"	"	"	
Bromoform	ND	6.4	"	"	"	"	"	"	
Bromomethane	ND	6.4	"	"	"	"	"	"	
n-Butylbenzene	ND	6.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	6.4	"	"	"	"	"	"	
Chloroethane	ND	6.4	"	"	"	"	"	"	
Chloroform	ND	6.4	"	"	"	"	"	"	
Chloromethane	ND	6.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.4	"	"	"	"	"	"	
Dibromochloromethane	ND	6.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	13	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.4	"	"	"	"	"	"	
Dibromomethane	ND	6.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.4	"	"	"	"	"	"	

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B7@15

T183753-13 (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-Dichloropropane	ND	6.4	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	6.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.4	"	"	"	"	"	"	
Isopropylbenzene	ND	6.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.4	"	"	"	"	"	"	
Methylene chloride	ND	6.4	"	"	"	"	"	"	
Naphthalene	ND	6.4	"	"	"	"	"	"	
n-Propylbenzene	ND	6.4	"	"	"	"	"	"	
Styrene	ND	6.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.4	"	"	"	"	"	"	
Tetrachloroethene	ND	6.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	6.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.4	"	"	"	"	"	"	
Vinyl chloride	ND	6.4	"	"	"	"	"	"	
Benzene	ND	6.4	"	"	"	"	"	"	
Toluene	ND	6.4	"	"	"	"	"	"	
Ethylbenzene	ND	6.4	"	"	"	"	"	"	
m,p-Xylene	ND	13	"	"	"	"	"	"	
o-Xylene	ND	6.4	"	"	"	"	"	"	

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T183753-13 (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

Surrogate: Toluene-d8	92.8 %	76.1-127	8121928	12/19/18	12/21/18	EPA 8260B/5035
Surrogate: 4-Bromofluorobenzene	102 %	85.9-114	"	"	"	"
Surrogate: Dibromofluoromethane	99.4 %	77.8-142	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Phenol	ND	1000	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B7@15

T183753-13 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

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Project: Holland Sunset
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Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B7@15

T183753-13 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

4-Nitroaniline	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	64.4 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	63.3 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	68.6 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	81.7 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	94.0 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	96.8 %	29.1-130	"	"	"	"	"	"

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01/09/19 14:59

B8@1

T183753-14 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	520	ug/kg	1	8121930	12/19/18	12/27/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		89.3 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	120	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		79.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	11	5.0	"	"	"	"	"	"	
Barium	140	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	17	2.0	"	"	"	"	"	"	
Cobalt	20	2.0	"	"	"	"	"	"	
Copper	31	1.0	"	"	"	"	"	"	
Lead	10	3.0	"	"	"	"	"	"	
Molybdenum	12	5.0	"	"	"	"	"	"	
Nickel	22	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	38	5.0	"	"	"	"	"	"	
Zinc	72	1.0	"	"	"	"	"	"	

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B8@1

T183753-14 (Soil)

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

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121923	12/19/18	12/26/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.3 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

87.3 %

35-140

"

"

"

"

SunStar Laboratories, Inc.

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T183753-14 (Soil)

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		79.6 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		71.8 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	8.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	8.2	"	"	"	"	"	"	
Bromodichloromethane	ND	8.2	"	"	"	"	"	"	
Bromoform	ND	8.2	"	"	"	"	"	"	
Bromomethane	ND	8.2	"	"	"	"	"	"	
n-Butylbenzene	ND	8.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	8.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	8.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	8.2	"	"	"	"	"	"	
Chlorobenzene	ND	8.2	"	"	"	"	"	"	
Chloroethane	ND	8.2	"	"	"	"	"	"	
Chloroform	ND	8.2	"	"	"	"	"	"	
Chloromethane	ND	8.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	8.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	8.2	"	"	"	"	"	"	
Dibromochloromethane	ND	8.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	16	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.2	"	"	"	"	"	"	
Dibromomethane	ND	8.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B8@1

T183753-14 (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

1,4-Dichlorobenzene	ND	8.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	8.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	8.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	8.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.2	"	"	"	"	"	"	
Isopropylbenzene	ND	8.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	8.2	"	"	"	"	"	"	
Methylene chloride	ND	8.2	"	"	"	"	"	"	
Naphthalene	ND	8.2	"	"	"	"	"	"	
n-Propylbenzene	ND	8.2	"	"	"	"	"	"	
Styrene	ND	8.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	8.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.2	"	"	"	"	"	"	
Tetrachloroethene	ND	8.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	8.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.2	"	"	"	"	"	"	
Trichloroethene	ND	8.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	8.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	8.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.2	"	"	"	"	"	"	

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T183753-14 (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

1,2,4-Trimethylbenzene	ND	8.2	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	8.2	"	"	"	"	"	"	
Benzene	ND	8.2	"	"	"	"	"	"	
Toluene	ND	8.2	"	"	"	"	"	"	
Ethylbenzene	ND	8.2	"	"	"	"	"	"	
m,p-Xylene	23	16	"	"	"	"	"	"	
o-Xylene	8.2	8.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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Project Number: 2047.17.01
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T183753-14 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

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B8@1

T183753-14 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		50.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		38.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		61.0 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		52.0 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		36.0 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		101 %	29.1-130		"	"	"	"	

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T183753-15 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	600	ug/kg	1	8121930	12/19/18	12/27/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		88.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	510	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		83.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.4	5.0	"	"	"	"	"	"	
Barium	130	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	35	1.0	"	"	"	"	"	"	
Lead	9.9	3.0	"	"	"	"	"	"	
Molybdenum	15	5.0	"	"	"	"	"	"	
Nickel	34	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	42	5.0	"	"	"	"	"	"	
Zinc	71	1.0	"	"	"	"	"	"	

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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	0.12	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	50	ug/kg	10	8121923	12/19/18	12/26/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4'-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4'-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	50	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	200	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

74.0 %

35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

73.9 %

35-140

"

"

"

"

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

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		75.6 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		71.3 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.9	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.9	"	"	"	"	"	"	
Bromodichloromethane	ND	5.9	"	"	"	"	"	"	
Bromoform	ND	5.9	"	"	"	"	"	"	
Bromomethane	ND	5.9	"	"	"	"	"	"	
n-Butylbenzene	ND	5.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.9	"	"	"	"	"	"	
Chlorobenzene	ND	5.9	"	"	"	"	"	"	
Chloroethane	ND	5.9	"	"	"	"	"	"	
Chloroform	ND	5.9	"	"	"	"	"	"	
Chloromethane	ND	5.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.9	"	"	"	"	"	"	
Dibromochloromethane	ND	5.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.9	"	"	"	"	"	"	
Dibromomethane	ND	5.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.9	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B8@5

T183753-15 (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

1,4-Dichlorobenzene	ND	5.9	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.9	"	"	"	"	"	"	
Isopropylbenzene	ND	5.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.9	"	"	"	"	"	"	
Methylene chloride	ND	5.9	"	"	"	"	"	"	
Naphthalene	ND	5.9	"	"	"	"	"	"	
n-Propylbenzene	ND	5.9	"	"	"	"	"	"	
Styrene	ND	5.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.9	"	"	"	"	"	"	
Tetrachloroethene	ND	5.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.9	"	"	"	"	"	"	
Trichloroethene	ND	5.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.9	"	"	"	"	"	"	

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T183753-15 (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

1,2,4-Trimethylbenzene	ND	5.9	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	5.9	"	"	"	"	"	"	
Benzene	ND	5.9	"	"	"	"	"	"	
Toluene	ND	5.9	"	"	"	"	"	"	
Ethylbenzene	7.2	5.9	"	"	"	"	"	"	
m,p-Xylene	ND	12	"	"	"	"	"	"	
o-Xylene	ND	5.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Phenol	ND	100000	"	"	"	"	"	"	R-07
Aniline	ND	30000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	100000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	30000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthene	ND	30000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	30000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	100000	"	"	"	"	"	"	R-07
Pyrene	ND	30000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	30000	"	"	"	"	"	"	R-07
Anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	30000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	30000	"	"	"	"	"	"	R-07

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T183753-15 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	100000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	30000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	30000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	30000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	30000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	30000	"	"	"	"	"	"	R-07
Chrysene	ND	30000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	30000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	30000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	30000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	30000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	100000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	30000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	100000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	100000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	100000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	30000	"	"	"	"	"	"	R-07
Fluoranthene	ND	30000	"	"	"	"	"	"	R-07
Fluorene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	150000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	30000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	100000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	30000	"	"	"	"	"	"	R-07

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T183753-15 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	30000	ug/kg	100	8121932	12/19/18	12/27/18	EPA 8270C	R-07
Isophorone	ND	30000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	100000	"	"	"	"	"	"	R-07
Naphthalene	ND	30000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	30000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	100000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	100000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	30000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	30000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	30000	"	"	"	"	"	"	R-07
Phenanthrene	ND	30000	"	"	"	"	"	"	R-07
Azobenzene	ND	30000	"	"	"	"	"	"	R-07
Pyridine	ND	30000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	100000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		57.0 %		15-121	"	"	"	"	
Surrogate: Phenol-d6		29.0 %		24-113	"	"	"	"	
Surrogate: Nitrobenzene-d5		62.0 %		21.3-119	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		78.0 %		32.4-102	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		25.0 %		18.1-105	"	"	"	"	
Surrogate: Terphenyl-d14		94.0 %		29.1-130	"	"	"	"	

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T183753-16 (Soil)

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

Purgeable Petroleum Hydrocarbons by EPA 8015B

C4-C12 (GRO)	ND	560	ug/kg	1	8121930	12/19/18	12/27/18	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		80.0 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015B

C13-C22 (DRO)	ND	10	mg/kg	1	8122128	12/21/18	12/22/18	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		78.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8121831	12/18/18	12/19/18	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.9	5.0	"	"	"	"	"	"	
Barium	70	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/19/18	"	
Cadmium	ND	2.0	"	"	"	"	12/19/18	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	15	2.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	9.8	3.0	"	"	"	"	"	"	
Molybdenum	11	5.0	"	"	"	"	"	"	
Nickel	23	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	76	1.0	"	"	"	"	"	"	

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T183753-16 (Soil)

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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	8121829	12/18/18	12/19/18	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	8121923	12/19/18	12/26/18	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

80.8 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

84.5 % 35-140

" " " "

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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	8122129	12/21/18	12/27/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		63.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		69.1 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.7	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Bromochloromethane	ND	5.7	"	"	"	"	"	"	
Bromodichloromethane	ND	5.7	"	"	"	"	"	"	
Bromoform	ND	5.7	"	"	"	"	"	"	
Bromomethane	ND	5.7	"	"	"	"	"	"	
n-Butylbenzene	ND	5.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.7	"	"	"	"	"	"	
Chlorobenzene	ND	5.7	"	"	"	"	"	"	
Chloroethane	ND	5.7	"	"	"	"	"	"	
Chloroform	ND	5.7	"	"	"	"	"	"	
Chloromethane	ND	5.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.7	"	"	"	"	"	"	
Dibromochloromethane	ND	5.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.7	"	"	"	"	"	"	
Dibromomethane	ND	5.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.7	"	"	"	"	"	"	

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T183753-16 (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

1,4-Dichlorobenzene	ND	5.7	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.7	"	"	"	"	"	"	
Isopropylbenzene	ND	5.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.7	"	"	"	"	"	"	
Methylene chloride	ND	5.7	"	"	"	"	"	"	
Naphthalene	ND	5.7	"	"	"	"	"	"	
n-Propylbenzene	ND	5.7	"	"	"	"	"	"	
Styrene	ND	5.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.7	"	"	"	"	"	"	
Tetrachloroethene	ND	5.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.7	"	"	"	"	"	"	
Trichloroethene	ND	5.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.7	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B8@9

T183753-16 (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

1,2,4-Trimethylbenzene	ND	5.7	ug/kg	1	8121928	12/19/18	12/21/18	EPA 8260B/5035	
Vinyl chloride	ND	5.7	"	"	"	"	"	"	
Benzene	ND	5.7	"	"	"	"	"	"	
Toluene	ND	5.7	"	"	"	"	"	"	
Ethylbenzene	10	5.7	"	"	"	"	"	"	
m,p-Xylene	17	11	"	"	"	"	"	"	
o-Xylene	5.8	5.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	77.8-142		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
01/09/19 14:59

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T183753-16 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

B8@9

T183753-16 (Soil)

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

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8121932	12/19/18	12/27/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	51.1 %	15-121			"	"	"	"
Surrogate: Phenol-d6	50.0 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	56.0 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	64.2 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	76.4 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	94.7 %	29.1-130			"	"	"	"

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Reported:
01/09/19 14:59

Purgeable Petroleum Hydrocarbons by EPA 8015B - 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 8121930 - EPA 5035 GC

Blank (8121930-BLK1)

Prepared: 12/19/18 Analyzed: 12/26/18

C4-C12 (GRO)	0.00		ug/kg							
C6-C12 (GRO)	ND	500	"							
Surrogate: a,a,a-Trifluorotoluene	86.8		"	100		86.8	65-135			

LCS (8121930-BS1)

Prepared: 12/19/18 Analyzed: 12/26/18

C4-C12 (GRO)	10100		ug/kg	10600		95.0	75-125			
Surrogate: a,a,a-Trifluorotoluene	95.3		"	100		95.3	65-135			

LCS Dup (8121930-BSD1)

Prepared: 12/19/18 Analyzed: 12/26/18

C4-C12 (GRO)	9790		ug/kg	10800		90.6	75-125	2.98	20	
Surrogate: a,a,a-Trifluorotoluene	93.9		"	100		93.9	65-135			

SunStar Laboratories, Inc.

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Extractable Petroleum Hydrocarbons by 8015B - 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 8122128 - EPA 3550B GC

Blank (8122128-BLK1)

Prepared: 12/21/18 Analyzed: 12/22/18

C13-C22 (DRO)	ND	10	mg/kg							
C23-C32 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	87.7		"	101		86.8	65-135			

LCS (8122128-BS1)

Prepared: 12/21/18 Analyzed: 12/22/18

C13-C22 (DRO)	420	10	mg/kg	505		82.6	75-125			
Surrogate: <i>p</i> -Terphenyl	86.8		"	101		85.9	65-135			

LCS Dup (8122128-BSD1)

Prepared: 12/21/18 Analyzed: 12/22/18

C13-C22 (DRO)	420	10	mg/kg	505		82.4	75-125	0.160	20	
Surrogate: <i>p</i> -Terphenyl	83.0		"	101		82.2	65-135			

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Metals by EPA 6010B - 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 8121831 - EPA 3050B

Blank (8121831-BLK1)

Prepared: 12/18/18 Analyzed: 12/19/18

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	2.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (8121831-BS1)

Prepared: 12/18/18 Analyzed: 12/19/18

Arsenic	88.4	5.0	mg/kg	100	88.4	75-125
Barium	91.5	1.0	"	100	91.5	75-125
Cadmium	90.2	2.0	"	100	90.2	75-125
Chromium	90.7	2.0	"	100	90.7	75-125
Lead	88.1	3.0	"	100	88.1	75-125

Matrix Spike (8121831-MS1)

Source: T183749-01

Prepared: 12/18/18 Analyzed: 12/19/18

Arsenic	81.5	5.0	mg/kg	99.0	11.2	71.0	75-125	QR-04
Barium	181	1.0	"	99.0	123	58.9	75-125	QR-04
Cadmium	74.9	2.0	"	99.0	ND	75.6	75-125	QR-04
Chromium	89.4	2.0	"	99.0	16.6	73.5	75-125	QR-04
Lead	87.3	3.0	"	99.0	18.6	69.3	75-125	QR-04

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Metals by EPA 6010B - 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 8121831 - EPA 3050B

Matrix Spike Dup (8121831-MSD1)

Source: T183749-01

Prepared: 12/18/18 Analyzed: 12/19/18

Arsenic	92.2	5.0	mg/kg	93.5	11.2	86.7	75-125	12.3	20	
Barium	212	1.0	"	93.5	123	95.0	75-125	15.5	20	
Cadmium	84.8	2.0	"	93.5	ND	90.7	75-125	12.5	20	
Chromium	102	2.0	"	93.5	16.6	90.9	75-125	12.7	20	
Lead	96.8	3.0	"	93.5	18.6	83.6	75-125	10.3	20	

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Cold Vapor Extraction EPA 7470/7471 - 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 8121829 - EPA 7471A Soil

Blank (8121829-BLK1)

Prepared: 12/18/18 Analyzed: 12/19/18

Mercury	ND	0.10	mg/kg							
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LCS (8121829-BS1)

Prepared: 12/18/18 Analyzed: 12/19/18

Mercury	0.370	0.10	mg/kg	0.385		96.3	80-120			
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Matrix Spike (8121829-MS1)

Source: T183749-01

Prepared: 12/18/18 Analyzed: 12/19/18

Mercury	0.388	0.10	mg/kg	0.397	0.0482	85.7	75-125			
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Matrix Spike Dup (8121829-MSD1)

Source: T183749-01

Prepared: 12/18/18 Analyzed: 12/19/18

Mercury	0.393	0.10	mg/kg	0.410	0.0482	84.2	75-125	1.19	20	
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Organochlorine Pesticides by EPA Method 8081A - 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 8121923 - EPA 3550 ECD/GCMS

Blank (8121923-BLK1)

Prepared: 12/19/18 Analyzed: 12/26/18

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	5.0	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	8.80		"	10.0		88.0	35-140			
Surrogate: Decachlorobiphenyl	9.92		"	10.0		99.2	35-140			

LCS (8121923-BS1)

Prepared: 12/19/18 Analyzed: 12/26/18

gamma-BHC (Lindane)	30.1	5.0	ug/kg	40.0		75.3	40-120			
Heptachlor	29.7	5.0	"	40.0		74.2	40-120			
Aldrin	27.8	5.0	"	40.0		69.5	40-120			
Dieldrin	29.7	5.0	"	40.0		74.2	40-120			
Endrin	29.8	5.0	"	40.0		74.5	40-120			
4,4'-DDT	23.7	5.0	"	40.0		59.2	33-147			
Surrogate: Tetrachloro-meta-xylene	7.80		"	10.0		78.0	35-140			
Surrogate: Decachlorobiphenyl	8.20		"	10.0		82.0	35-140			

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Organochlorine Pesticides by EPA Method 8081A - 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 8121923 - EPA 3550 ECD/GCMS

Matrix Spike (8121923-MS1)		Source: T183753-01			Prepared: 12/19/18 Analyzed: 12/26/18					
Heptachlor	19.7	50	ug/kg	40.0	ND	49.3	30-120			
Aldrin	19.7	50	"	40.0	ND	49.1	30-120			
Dieldrin	19.0	50	"	40.0	ND	47.6	30-120			
Endrin	19.1	50	"	40.0	ND	47.9	30-120			
4,4'-DDT	12.9	50	"	40.0	ND	32.2	30-120			
Surrogate: Tetrachloro-meta-xylene		6.28	"	10.0		62.8	35-140			
Surrogate: Decachlorobiphenyl		9.81	"	10.0		98.1	35-140			

Matrix Spike Dup (8121923-MSD1)		Source: T183753-01			Prepared: 12/19/18 Analyzed: 12/26/18					
gamma-BHC (Lindane)	23.4	50	ug/kg	40.0	ND	58.4	30-120	11.1	30	
Heptachlor	22.7	50	"	40.0	ND	56.8	30-120	14.2	30	
Aldrin	22.3	50	"	40.0	ND	55.8	30-120	12.8	30	
Dieldrin	21.7	50	"	40.0	ND	54.3	30-120	13.1	30	
Endrin	22.3	50	"	40.0	ND	55.6	30-120	15.0	30	
4,4'-DDT	13.7	50	"	40.0	ND	34.2	30-120	5.77	30	
Surrogate: Tetrachloro-meta-xylene		7.16	"	10.0		71.6	35-140			
Surrogate: Decachlorobiphenyl		7.65	"	10.0		76.5	35-140			

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

Polychlorinated Biphenyls by EPA Method 8082 - 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 8122129 - EPA 3550 ECD/GCMS

Blank (8122129-BLK1)

Prepared: 12/21/18 Analyzed: 12/27/18

PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	9.43		"	9.80		96.2	35-140			
Surrogate: Decachlorobiphenyl	8.46		"	9.80		86.3	35-140			

LCS (8122129-BS1)

Prepared: 12/21/18 Analyzed: 12/27/18

PCB-1016	87.8	10	ug/kg	98.0		89.6	40-130			
PCB-1260	74.3	10	"	98.0		75.7	40-130			
Surrogate: Tetrachloro-meta-xylene	8.75		"	9.80		89.2	35-140			
Surrogate: Decachlorobiphenyl	8.09		"	9.80		82.5	35-140			

LCS Dup (8122129-BS1)

Prepared: 12/21/18 Analyzed: 12/27/18

PCB-1016	86.6	10	ug/kg	98.0		88.3	40-130	1.40	30	
PCB-1260	84.1	10	"	98.0		85.8	40-130	12.5	30	
Surrogate: Tetrachloro-meta-xylene	8.91		"	9.80		90.8	35-140			
Surrogate: Decachlorobiphenyl	8.89		"	9.80		90.7	35-140			

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Project Number: 2047.17.01
Project Manager: Derrick Willis

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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 8121928 - EPA 5035 GCMS

Blank (8121928-BLK1)

Prepared: 12/19/18 Analyzed: 12/21/18

Bromobenzene	ND	4.9	ug/kg
Bromochloromethane	ND	4.9	"
Bromodichloromethane	ND	4.9	"
Bromoform	ND	4.9	"
Bromomethane	ND	4.9	"
n-Butylbenzene	ND	4.9	"
sec-Butylbenzene	ND	4.9	"
tert-Butylbenzene	ND	4.9	"
Carbon tetrachloride	ND	4.9	"
Chlorobenzene	ND	4.9	"
Chloroethane	ND	4.9	"
Chloroform	ND	4.9	"
Chloromethane	ND	4.9	"
2-Chlorotoluene	ND	4.9	"
4-Chlorotoluene	ND	4.9	"
Dibromochloromethane	ND	4.9	"
1,2-Dibromo-3-chloropropane	ND	9.9	"
1,2-Dibromoethane (EDB)	ND	4.9	"
Dibromomethane	ND	4.9	"
1,2-Dichlorobenzene	ND	4.9	"
1,3-Dichlorobenzene	ND	4.9	"
1,4-Dichlorobenzene	ND	4.9	"
Dichlorodifluoromethane	ND	4.9	"
1,1-Dichloroethane	ND	4.9	"
1,2-Dichloroethane	ND	4.9	"
1,1-Dichloroethene	ND	4.9	"
cis-1,2-Dichloroethene	ND	4.9	"
trans-1,2-Dichloroethene	ND	4.9	"
1,2-Dichloropropane	ND	4.9	"
1,3-Dichloropropane	ND	4.9	"
2,2-Dichloropropane	ND	4.9	"
1,1-Dichloropropene	ND	4.9	"
cis-1,3-Dichloropropene	ND	4.9	"
trans-1,3-Dichloropropene	ND	4.9	"
Hexachlorobutadiene	ND	4.9	"
Isopropylbenzene	ND	4.9	"

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Project Manager: Derrick Willis

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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 8121928 - EPA 5035 GCMS

Blank (8121928-BLK1)

Prepared: 12/19/18 Analyzed: 12/21/18

p-Isopropyltoluene	ND	4.9	ug/kg							
Methylene chloride	ND	4.9	"							
Naphthalene	ND	4.9	"							
n-Propylbenzene	ND	4.9	"							
Styrene	ND	4.9	"							
1,1,2,2-Tetrachloroethane	ND	4.9	"							
1,1,1,2-Tetrachloroethane	ND	4.9	"							
Tetrachloroethene	ND	4.9	"							
1,2,3-Trichlorobenzene	ND	4.9	"							
1,2,4-Trichlorobenzene	ND	4.9	"							
1,1,2-Trichloroethane	ND	4.9	"							
1,1,1-Trichloroethane	ND	4.9	"							
Trichloroethene	ND	4.9	"							
Trichlorofluoromethane	ND	4.9	"							
1,2,3-Trichloropropane	ND	4.9	"							
1,3,5-Trimethylbenzene	ND	4.9	"							
1,2,4-Trimethylbenzene	ND	4.9	"							
Vinyl chloride	ND	4.9	"							
Benzene	ND	4.9	"							
Toluene	ND	4.9	"							
Ethylbenzene	ND	4.9	"							
m,p-Xylene	ND	9.9	"							
o-Xylene	ND	4.9	"							

Surrogate: Toluene-d8	38.0		"	39.6		96.0	76.1-127
Surrogate: 4-Bromofluorobenzene	39.4		"	39.6		99.4	85.9-114
Surrogate: Dibromofluoromethane	38.5		"	39.6		97.3	77.8-142

LCS (8121928-BS1)

Prepared: 12/19/18 Analyzed: 12/21/18

Chlorobenzene	101	4.7	ug/kg	94.9		107	75-125
1,1-Dichloroethene	86.0	4.7	"	94.9		90.7	75-125
Trichloroethene	90.9	4.7	"	94.9		95.8	75-125
Benzene	89.1	4.7	"	94.9		93.9	75-125
Toluene	87.1	4.7	"	94.9		91.8	75-125
Surrogate: Toluene-d8	35.8		"	37.9		94.4	76.1-127
Surrogate: 4-Bromofluorobenzene	36.3		"	37.9		95.8	85.9-114
Surrogate: Dibromofluoromethane	37.3		"	37.9		98.4	77.8-142

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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 Limits	RPD	RPD Limit	Notes
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Batch 8121928 - EPA 5035 GCMS

LCS Dup (8121928-BSD1)

Prepared: 12/19/18 Analyzed: 12/21/18

Chlorobenzene	91.8	4.5	ug/kg	89.5	103	75-125	9.60	20	
1,1-Dichloroethene	83.3	4.5	"	89.5	93.1	75-125	3.21	20	
Trichloroethene	87.5	4.5	"	89.5	97.8	75-125	3.82	20	
Benzene	84.4	4.5	"	89.5	94.3	75-125	5.46	20	
Toluene	81.7	4.5	"	89.5	91.3	75-125	6.37	20	
Surrogate: Toluene-d8	34.2		"	35.8	95.4	76.1-127			
Surrogate: 4-Bromofluorobenzene	35.0		"	35.8	97.8	85.9-114			
Surrogate: Dibromofluoromethane	35.4		"	35.8	98.8	77.8-142			

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Reported:
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Semivolatile Organic Compounds by EPA Method 8270C - 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 8121932 - EPA 3550 ECD/GCMS

Blank (8121932-BLK1)

Prepared: 12/19/18 Analyzed: 12/27/18

Carbazole	ND	300	ug/kg
Aniline	ND	300	"
Phenol	ND	1000	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
1-Methylnaphthalene	ND	300	"
2-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

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Project Manager: Derrick Willis

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01/09/19 14:59

Semivolatile Organic Compounds by EPA Method 8270C - 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 8121932 - EPA 3550 ECD/GCMS

Blank (8121932-BLK1)

Prepared: 12/19/18 Analyzed: 12/27/18

1,2-Dichlorobenzene	ND	300	ug/kg
1,3-Dichlorobenzene	ND	300	"
2,4-Dichlorophenol	ND	1000	"
Diethyl phthalate	ND	300	"
2,4-Dimethylphenol	ND	1000	"
Dimethyl phthalate	ND	300	"
4,6-Dinitro-2-methylphenol	ND	1000	"
2,4-Dinitrophenol	ND	1000	"
2,6-Dinitrotoluene	ND	1000	"
Di-n-octyl phthalate	ND	300	"
Fluoranthene	ND	300	"
Fluorene	ND	300	"
Hexachlorobenzene	ND	1500	"
Hexachlorobutadiene	ND	300	"
Hexachlorocyclopentadiene	ND	1000	"
Hexachloroethane	ND	300	"
Indeno (1,2,3-cd) pyrene	ND	300	"
Isophorone	ND	300	"
2-Methylphenol	ND	1000	"
4-Methylphenol	ND	1000	"
Naphthalene	ND	300	"
2-Nitroaniline	ND	300	"
3-Nitroaniline	ND	300	"
4-Nitroaniline	ND	300	"
Nitrobenzene	ND	1000	"
2-Nitrophenol	ND	1000	"
N-Nitrosodimethylamine	ND	300	"
N-Nitrosodiphenylamine	ND	300	"
2,3,5,6-Tetrachlorophenol	ND	300	"
2,3,4,6-Tetrachlorophenol	ND	300	"
Phenanthrene	ND	300	"
Azobenzene	ND	300	"
Pyridine	ND	300	"
2,4,5-Trichlorophenol	ND	1000	"
2,4,6-Trichlorophenol	ND	1000	"

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Semivolatile Organic Compounds by EPA Method 8270C - 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 8121932 - EPA 3550 ECD/GCMS

Blank (8121932-BLK1)

Prepared: 12/19/18 Analyzed: 12/27/18

Surrogate: 2-Fluorophenol	1830		ug/kg	3320		55.1	15-121			
Surrogate: Phenol-d6	1740		"	3320		52.4	24-113			
Surrogate: Nitrobenzene-d5	1960		"	3320		59.0	21.3-119			
Surrogate: 2-Fluorobiphenyl	2400		"	3320		72.1	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2960		"	3320		89.1	18.1-105			
Surrogate: Terphenyl-d14	3310		"	3320		99.5	29.1-130			

LCS (8121932-BS1)

Prepared: 12/19/18 Analyzed: 12/27/18

Phenol	1940	1000	ug/kg	3230		60.2	34-114			
2-Chlorophenol	2200	1000	"	3230		68.2	34-114			
1,4-Dichlorobenzene	2450	300	"	3230		76.1	34-114			
N-Nitrosodi-n-propylamine	2460	300	"	3230		76.2	30-110			
1,2,4-Trichlorobenzene	2600	300	"	3230		80.6	39-119			
4-Chloro-3-methylphenol	2590	1000	"	3230		80.2	50-130			
Acenaphthene	2940	300	"	3230		91.2	34-114			
Pentachlorophenol	3510	1000	"	3230		109	50-130			
Pyrene	2470	300	"	3230		76.7	33.7-123			
Surrogate: 2-Fluorophenol	2020		"	3230		62.6	15-121			
Surrogate: Phenol-d6	1910		"	3230		59.3	24-113			
Surrogate: Nitrobenzene-d5	2290		"	3230		71.0	21.3-119			
Surrogate: 2-Fluorobiphenyl	2620		"	3230		81.4	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3030		"	3230		94.0	18.1-105			
Surrogate: Terphenyl-d14	3220		"	3230		99.8	29.1-130			

Matrix Spike (8121932-MS1)

Source: T183753-16

Prepared: 12/19/18 Analyzed: 12/27/18

Phenol	1910	1000	ug/kg	3310	ND	57.8	34-114			
2-Chlorophenol	2190	1000	"	3310	ND	66.1	34-114			
1,4-Dichlorobenzene	2370	300	"	3310	ND	71.6	34-114			
N-Nitrosodi-n-propylamine	2430	300	"	3310	ND	73.4	30-110			
1,2,4-Trichlorobenzene	2540	300	"	3310	ND	76.6	39-119			
4-Chloro-3-methylphenol	2640	1000	"	3310	ND	79.8	50-130			
Acenaphthene	2990	300	"	3310	ND	90.2	34-114			
Pentachlorophenol	4110	1000	"	3310	ND	124	50-130			
Pyrene	2510	300	"	3310	ND	75.8	33.7-123			
Surrogate: 2-Fluorophenol	1910		"	3310		57.7	15-121			
Surrogate: Phenol-d6	1790		"	3310		54.2	24-113			

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

Semivolatile Organic Compounds by EPA Method 8270C - 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 8121932 - EPA 3550 ECD/GCMS

Matrix Spike (8121932-MS1)

Source: T183753-16

Prepared: 12/19/18 Analyzed: 12/27/18

Surrogate: Nitrobenzene-d5	2100		ug/kg	3310		63.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2340		"	3310		70.8	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2980		"	3310		90.1	18.1-105			
Surrogate: Terphenyl-d14	3340		"	3310		101	29.1-130			

Matrix Spike Dup (8121932-MSD1)

Source: T183753-16

Prepared: 12/19/18 Analyzed: 12/27/18

Phenol	1920	1000	ug/kg	3230	ND	59.7	34-114	0.605	42	
2-Chlorophenol	2170	1000	"	3230	ND	67.3	34-114	0.829	40	
1,4-Dichlorobenzene	2340	300	"	3230	ND	72.5	34-114	1.43	28	
N-Nitrosodi-n-propylamine	2390	300	"	3230	ND	74.0	30-110	1.80	38	
1,2,4-Trichlorobenzene	2500	300	"	3230	ND	77.4	39-119	1.58	28	
4-Chloro-3-methylphenol	2550	1000	"	3230	ND	79.1	50-130	3.51	42	
Acenaphthene	2880	300	"	3230	ND	89.4	34-114	3.52	31	
Pentachlorophenol	4050	1000	"	3230	ND	125	50-130	1.59	50	
Pyrene	2340	300	"	3230	ND	72.6	33.7-123	6.85	31	
Surrogate: 2-Fluorophenol	1910		"	3230		59.2	15-121			
Surrogate: Phenol-d6	1760		"	3230		54.5	24-113			
Surrogate: Nitrobenzene-d5	2070		"	3230		64.1	21.3-119			
Surrogate: 2-Fluorobiphenyl	2260		"	3230		70.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2800		"	3230		86.9	18.1-105			
Surrogate: Terphenyl-d14	3060		"	3230		95.0	29.1-130			

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949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/09/19 14:59

Notes and Definitions

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

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.

QR-04 The percent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.

M-02 Multiple analysis yielded poor internal standard and/or surrogate recoveries due to matrix effect. Results reported are from the most complete recovery of internal standards, however, recoveries were not within the acceptable limits of the method.

5035R 5035 sample integrity was compromised and unusable. Analysis was performed from additional soil sampled.

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

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.

Joann Marroquin, Client Services Manager



SunStar Laboratories

Chain of Custody Record

25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental Mgmt Inc
Address: 2444 Ridge Road Dr #130
Phone: 949.375.7004 Fax: _____
Project Manager: Derek Williams

Date: 12/18/18 Page: 1 Of _____
Project Name: Holmes SunStar
Collector: D Williams Client Project #: 2049.17.01
Batch #: 7183758 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time (am)	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	PCBs 8082	PCPs 8081	Comments/Preservative	Total # of containers	Notes
01	B501	12/18/18	12:01	SOL	51 + 5035	X			X		X		X	X	X					
02	B505		12:05			X			X		X		X	X	X					
03	B5010		12:20			X			X		X		X	X	X					
04	B5015		12:35			X			X		X		X	X	X					
05	B5017		12:45			X			X		X		X	X	X					
06	B601		1:20			X			X		X		X	X	X					
07	B605		1:35			X			X		X		X	X	X					
08	B610		1:50			X			X		X		X	X	X					
09	B615		2:10			X			X		X		X	X	X					
10	B701		2:40			X			X		X		X	X	X					
11	B705		2:50			X			X		X		X	X	X					
12	B710		3:00			X			X		X		X	X	X					
13	B715		3:10			X			X		X		X	X	X					
14	B801		3:50			X			X		X		X	X	X					
15	B805		4:00			X			X		X		X	X	X					
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Chain of Custody seals Y/N/A		Seals intact? Y/N/A		Received good condition/cold		Turn around time: <u>STB</u>		Total # of containers		Notes		
<u>[Signature]</u>		<u>12/18/18 11:50</u>		<u>[Signature]</u>		<u>12/18/18 11:30</u>		<u>Y</u>		<u>Y</u>		<u>Y</u>		<u>44</u>						
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time														
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time														

COC 180559



Chain of Custody Record

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental Mgmt Inc
Address: 24411 Ridg Road Dr #130
Phone: 444.325.7004 Fax: _____
Project Manager: Derek Willis

Date: 12/18/18 Page: _____ Of _____
Project Name: Norand Sunset
Collector: D Wilson Client Project #: 2047.17.01
Batch #: 71837558 EDF #: _____

Page 133 of 156

[illegible]

COC 180560

Joann Marroquin

From: Derrick Willis [derrick.willis@ngem.com]
Sent: Monday, January 07, 2019 5:05 PM
To: Joann Marroquin
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Yes, thanks

From: Joann Marroquin [mailto:joann@sunstarlabs.com]
Sent: Monday, January 7, 2019 5:04 PM
To: 'Joann Marroquin'; 'Derrick Willis'
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Do you need 3-day TAT on this one too?

Joann Marroquin
Southern California Sales/CSM



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Accreditation: 2250 | State of Nevada Accreditation: CA012842019-1
ISO/IEC 17025 Accreditation: AT-2642 | CA Small Business Certification: 31511

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From: Joann Marroquin [mailto:joann@sunstarlabs.com]
Sent: Monday, January 07, 2019 4:59 PM
To: 'Derrick Willis'
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Derrick,

What TAT do you need for this?

Joann Marroquin
Southern California Sales/CSM



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Office: (949) 297-5020 | Fax: (949) 297-5027
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From: Derrick Willis [mailto:derrick.willis@ngem.com]
Sent: Monday, January 07, 2019 2:57 PM
To: Joann Marroquin
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Joann,
Please run B5-1 for STLC lead. Depending on results, we may need to run a TCLP as well.
Thanks
Derrick



Derrick S. Willis
Principal

Northgate Environmental Management, Inc.
24411 Ridge Route Drive, Suite 130, Laguna Hills, CA 92653
phone (949) 716-0050 ext. 101; cell (949) 375-7004; fax (949) 315-3365
<http://www.ngem.com>

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From: Joann Marroquin [mailto:joann@sunstarlabs.com]
Sent: Thursday, December 27, 2018 5:02 PM
To: 'Derrick Willis'
Cc: accounting@sunstarlabs.com; Milton Tso; Randa Bitar
Subject: Final Report and Invoice for Holland Street (T183753)

Derrick,

Please find attached the final report and invoice for the following:

Project: **Holland Street**
Project Number: **2047.17.01**

If I can provide any additional information, please let me know.

We appreciate your business!

Best regards,
Joann

Shipping Alert:

Please note that SunStar Laboratories will be observing the upcoming Christmas and New Year's holidays on December 24th, 25th, and January 1st. We will be closed on Monday and Tuesday for Christmas Eve and Christmas day as well as Tuesday, New Year's Day. In addition, GSO will not have scheduled service on these days. If you have any short hold

samples arriving near or during these days, please contact your Project Manager in advance to ensure all holding times are met for your samples.

We appreciate your business and hope that you have a wonderful and safe holiday!

Joann Marroquin
Southern California Sales/CSM



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Joann Marroquin

From: Derrick Willis [derrick.willis@ngem.com]
Sent: Wednesday, January 09, 2019 11:33 AM
To: Joann Marroquin
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Joann,
Please also run lead for TCLP. 3-day TAT. Thanks
Derrick

From: Derrick Willis [mailto:derrick.willis@ngem.com]
Sent: Monday, January 7, 2019 2:57 PM
To: 'Joann Marroquin'
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Joann,
Please run B5-1 for STLC lead. Depending on results, we may need to run a TCLP as well.
Thanks
Derrick



Derrick S. Willis
Principal

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24411 Ridge Route Drive, Suite 130, Laguna Hills, CA 92653
phone (949) 716-0050 ext. 101; cell (949) 375-7004; fax (949) 315-3365
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Cc: accounting@sunstarlabs.com; Milton Tso; Randa Bitar
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Project Number: **2047.17.01**

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Joann Marroquin

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SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

7183153

Client Name:

NORTHGATE ENV

Project:

HOLLAND SUNSET

Delivered by:

☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by:

Date/Time Courier

Received:

Lab Received by:

SUNNY

Date/Time Lab

Received:

12-18-18 / 11:30

Total number of coolers received: 1

Temperature: Cooler #1 3.2 °C +/- the CF (1.2°C) = 4.4 °C corrected temperature

Temperature: Cooler #2 °C +/- the CF (1.2°C) = °C corrected temperature

Temperature: Cooler #3 °C +/- the CF (1.2°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 12-18-18

Comments:

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna
Project: Holland Sunset

Project Manager: Joann Marroquin
Project Number: 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 12/27/18 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 12/18/18 11:30

Logged In By: Sunny Lounethone

Date Logged In: 12/18/18 14:03

Samples Received at: 4.4°C

Custody Seals No **Received On Ice** Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T183753-01 B5@1 [Soil] Sampled 12/18/18 12:01 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	06/16/19 12:01
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:01
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:01
8081 Pesticides	12/27/18 15:00	5	01/01/19 12:01
8082 PCB	12/27/18 15:00	5	01/01/19 12:01
8260 5035	12/27/18 15:00	5	01/01/19 12:01
8270C	12/27/18 15:00	5	01/01/19 12:01

T183753-02 B5@5 [Soil] Sampled 12/18/18 12:05 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	06/16/19 12:05
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:05
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:05
8081 Pesticides	12/27/18 15:00	5	01/01/19 12:05
8082 PCB	12/27/18 15:00	5	01/01/19 12:05
8260 5035	12/27/18 15:00	5	01/01/19 12:05
8270C	12/27/18 15:00	5	01/01/19 12:05

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-03 B5@10 [Soil] Sampled 12/18/18 12:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 12:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 12:20	
8082 PCB	12/27/18 15:00	5	01/01/19 12:20	
8260 5035	12/27/18 15:00	5	01/01/19 12:20	
8270C	12/27/18 15:00	5	01/01/19 12:20	
T183753-04 B5@15 [Soil] Sampled 12/18/18 12:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 12:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:35	
8260 5035	12/27/18 15:00	5	01/01/19 12:35	
8270C	12/27/18 15:00	5	01/01/19 12:35	
T183753-05 B5@17 [Soil] Sampled 12/18/18 12:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 12:45	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:45	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:45	
8260 5035	12/27/18 15:00	5	01/01/19 12:45	
T183753-06 B6@1 [Soil] Sampled 12/18/18 13:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 13:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:20	
8082 PCB	12/27/18 15:00	5	01/01/19 13:20	
8260 5035	12/27/18 15:00	5	01/01/19 13:20	
8270C	12/27/18 15:00	5	01/01/19 13:20	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-07 B6@5 [Soil] Sampled 12/18/18 13:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 13:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:35	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:35	
8082 PCB	12/27/18 15:00	5	01/01/19 13:35	
8260 5035	12/27/18 15:00	5	01/01/19 13:35	
8270C	12/27/18 15:00	5	01/01/19 13:35	
T183753-08 B6@10 [Soil] Sampled 12/18/18 13:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 13:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:50	
8082 PCB	12/27/18 15:00	5	01/01/19 13:50	
8260 5035	12/27/18 15:00	5	01/01/19 13:50	
8270C	12/27/18 15:00	5	01/01/19 13:50	
T183753-09 B6@15 [Soil] Sampled 12/18/18 14:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 14:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 14:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 14:10	
8260 5035	12/27/18 15:00	5	01/01/19 14:10	
8270C	12/27/18 15:00	5	01/01/19 14:10	
T183753-10 B7@1 [Soil] Sampled 12/18/18 14:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 14:40	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 14:40	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 14:40	
8081 Pesticides	12/27/18 15:00	5	01/01/19 14:40	
8082 PCB	12/27/18 15:00	5	01/01/19 14:40	
8260 5035	12/27/18 15:00	5	01/01/19 14:40	
8270C	12/27/18 15:00	5	01/01/19 14:40	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-11 B7@5 [Soil] Sampled 12/18/18 14:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 14:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 14:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 14:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 14:50	
8082 PCB	12/27/18 15:00	5	01/01/19 14:50	
8260 5035	12/27/18 15:00	5	01/01/19 14:50	
8270C	12/27/18 15:00	5	01/01/19 14:50	
T183753-12 B7@10 [Soil] Sampled 12/18/18 15:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 15:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 15:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 15:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 15:00	
8082 PCB	12/27/18 15:00	5	01/01/19 15:00	
8260 5035	12/27/18 15:00	5	01/01/19 15:00	
8270C	12/27/18 15:00	5	01/01/19 15:00	
T183753-13 B7@15 [Soil] Sampled 12/18/18 15:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 15:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 15:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 15:10	
8260 5035	12/27/18 15:00	5	01/01/19 15:10	
8270C	12/27/18 15:00	5	01/01/19 15:10	
T183753-14 B8@1 [Soil] Sampled 12/18/18 15:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 15:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 15:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 15:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 15:50	
8082 PCB	12/27/18 15:00	5	01/01/19 15:50	
8260 5035	12/27/18 15:00	5	01/01/19 15:50	
8270C	12/27/18 15:00	5	01/01/19 15:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-15 B8@5 [Soil] Sampled 12/18/18 16:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 16:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 16:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 16:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 16:00	
8082 PCB	12/27/18 15:00	5	01/01/19 16:00	
8260 5035	12/27/18 15:00	5	01/01/19 16:00	
8270C	12/27/18 15:00	5	01/01/19 16:00	

T183753-16 B8@9 [Soil] Sampled 12/18/18 16:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 16:15	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 16:15	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 16:15	
8081 Pesticides	12/27/18 15:00	5	01/01/19 16:15	
8082 PCB	12/27/18 15:00	5	01/01/19 16:15	
8260 5035	12/27/18 15:00	5	01/01/19 16:15	
8270C	12/27/18 15:00	5	01/01/19 16:15	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna
Project: Holland Sunset

Project Manager: Joann Marroquin
Project Number: 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 01/10/19 17:00 (14 day TAT)

Received By: Sunny Lounethone

Date Received: 12/18/18 11:30

Logged In By: Sunny Lounethone

Date Logged In: 12/18/18 14:03

Samples Received at: **4.4°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T183753-01 B5@1 [Soil] Sampled 12/18/18 00:01 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	12/23/18 00:01	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:01	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:01	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:01	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:01	
8082 PCB	12/27/18 15:00	5	01/01/19 00:01	
8260 5035	12/27/18 15:00	5	01/01/19 00:01	
8270C	12/27/18 15:00	5	01/01/19 00:01	
STLC Pb	01/10/19 15:00	5	06/16/19 00:01	
STLC Leaching Procedure Metals	01/10/19 15:00	5	06/16/19 00:01	Added STLC Pb 1/7/19 Due 1/10/19

T183753-02 B5@5 [Soil] Sampled 12/18/18 00:05 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	12/23/18 00:05
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:05
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:05
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:05
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:05
8082 PCB	12/27/18 15:00	5	01/01/19 00:05
8260 5035	12/27/18 15:00	5	01/01/19 00:05
8270C	12/27/18 15:00	5	01/01/19 00:05

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-03 B5@10 [Soil] Sampled 12/18/18 00:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:20	
8082 PCB	12/27/18 15:00	5	01/01/19 00:20	
8260 5035	12/27/18 15:00	5	01/01/19 00:20	
8270C	12/27/18 15:00	5	01/01/19 00:20	
T183753-04 B5@15 [Soil] Sampled 12/18/18 00:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:35	
8260 5035	12/27/18 15:00	5	01/01/19 00:35	
8270C	12/27/18 15:00	5	01/01/19 00:35	
T183753-05 B5@17 [Soil] Sampled 12/18/18 00:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:45	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:45	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:45	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:45	
8260 5035	12/27/18 15:00	5	01/01/19 00:45	
T183753-06 B6@1 [Soil] Sampled 12/18/18 01:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:20	
8082 PCB	12/27/18 15:00	5	01/01/19 01:20	
8260 5035	12/27/18 15:00	5	01/01/19 01:20	
8270C	12/27/18 15:00	5	01/01/19 01:20	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-07 B6@5 [Soil] Sampled 12/18/18 13:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 13:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 13:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:35	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:35	
8082 PCB	12/27/18 15:00	5	01/01/19 13:35	
8260 5035	12/27/18 15:00	5	01/01/19 13:35	
8270C	12/27/18 15:00	5	01/01/19 13:35	
T183753-08 B6@10 [Soil] Sampled 12/18/18 01:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:50	
8082 PCB	12/27/18 15:00	5	01/01/19 01:50	
8260 5035	12/27/18 15:00	5	01/01/19 01:50	
8270C	12/27/18 15:00	5	01/01/19 01:50	
T183753-09 B6@15 [Soil] Sampled 12/18/18 02:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:10	
8260 5035	12/27/18 15:00	5	01/01/19 02:10	
8270C	12/27/18 15:00	5	01/01/19 02:10	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-10 B7@1 [Soil] Sampled 12/18/18 02:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:40	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:40	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:40	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:40	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:40	
8082 PCB	12/27/18 15:00	5	01/01/19 02:40	
8260 5035	12/27/18 15:00	5	01/01/19 02:40	
8270C	12/27/18 15:00	5	01/01/19 02:40	
T183753-11 B7@5 [Soil] Sampled 12/18/18 02:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:50	
8082 PCB	12/27/18 15:00	5	01/01/19 02:50	
8260 5035	12/27/18 15:00	5	01/01/19 02:50	
8270C	12/27/18 15:00	5	01/01/19 02:50	
T183753-12 B7@10 [Soil] Sampled 12/18/18 03:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:00	
8082 PCB	12/27/18 15:00	5	01/01/19 03:00	
8260 5035	12/27/18 15:00	5	01/01/19 03:00	
8270C	12/27/18 15:00	5	01/01/19 03:00	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-13 B7@15 [Soil] Sampled 12/18/18 03:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:10	
8260 5035	12/27/18 15:00	5	01/01/19 03:10	
8270C	12/27/18 15:00	5	01/01/19 03:10	
T183753-14 B8@1 [Soil] Sampled 12/18/18 03:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:50	
8082 PCB	12/27/18 15:00	5	01/01/19 03:50	
8260 5035	12/27/18 15:00	5	01/01/19 03:50	
8270C	12/27/18 15:00	5	01/01/19 03:50	
T183753-15 B8@5 [Soil] Sampled 12/18/18 04:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:00	
8082 PCB	12/27/18 15:00	5	01/01/19 04:00	
8260 5035	12/27/18 15:00	5	01/01/19 04:00	
8270C	12/27/18 15:00	5	01/01/19 04:00	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-16 B8@9 [Soil] Sampled 12/18/18 04:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:15	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:15	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:15	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:15	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:15	
8082 PCB	12/27/18 15:00	5	01/01/19 04:15	
8260 5035	12/27/18 15:00	5	01/01/19 04:15	
8270C	12/27/18 15:00	5	01/01/19 04:15	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 01/10/19 17:00 (14 day TAT)
Received By: Sunny Lounethone Date Received: 12/18/18 11:30
Logged In By: Sunny Lounethone Date Logged In: 12/18/18 14:03

Samples Received at: **4.4°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
T183753-01 B5@1 [Soil] Sampled 12/18/18 00:01 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:01	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:01	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:01	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:01	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:01	
8082 PCB	12/27/18 15:00	5	01/01/19 00:01	
8260 5035	12/27/18 15:00	5	01/01/19 00:01	
8270C	12/27/18 15:00	5	01/01/19 00:01	
STLC Pb	01/10/19 15:00	5	06/16/19 00:01	
STLC Leaching Procedure Metals	01/10/19 15:00	5	06/16/19 00:01	Added STLC Pb 1/7/19 Due 1/10/19
TCLP Leaching Procedure Metals	01/10/19 15:00	5	06/16/19 00:01	
TCLP Pb	01/10/19 15:00	5	06/16/19 00:01	Added on 1/9/19 Due 1/10/19

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-02 B5@5 [Soil] Sampled 12/18/18 00:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:05	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:05	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:05	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:05	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:05	
8082 PCB	12/27/18 15:00	5	01/01/19 00:05	
8260 5035	12/27/18 15:00	5	01/01/19 00:05	
8270C	12/27/18 15:00	5	01/01/19 00:05	
T183753-03 B5@10 [Soil] Sampled 12/18/18 00:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:20	
8082 PCB	12/27/18 15:00	5	01/01/19 00:20	
8260 5035	12/27/18 15:00	5	01/01/19 00:20	
8270C	12/27/18 15:00	5	01/01/19 00:20	
T183753-04 B5@15 [Soil] Sampled 12/18/18 00:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:35	
8260 5035	12/27/18 15:00	5	01/01/19 00:35	
8270C	12/27/18 15:00	5	01/01/19 00:35	
T183753-05 B5@17 [Soil] Sampled 12/18/18 00:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:45	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:45	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:45	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:45	
8260 5035	12/27/18 15:00	5	01/01/19 00:45	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-06 B6@1 [Soil] Sampled 12/18/18 01:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:20	
8082 PCB	12/27/18 15:00	5	01/01/19 01:20	
8260 5035	12/27/18 15:00	5	01/01/19 01:20	
8270C	12/27/18 15:00	5	01/01/19 01:20	
T183753-07 B6@5 [Soil] Sampled 12/18/18 13:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 13:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 13:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:35	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:35	
8082 PCB	12/27/18 15:00	5	01/01/19 13:35	
8260 5035	12/27/18 15:00	5	01/01/19 13:35	
8270C	12/27/18 15:00	5	01/01/19 13:35	
T183753-08 B6@10 [Soil] Sampled 12/18/18 01:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:50	
8082 PCB	12/27/18 15:00	5	01/01/19 01:50	
8260 5035	12/27/18 15:00	5	01/01/19 01:50	
8270C	12/27/18 15:00	5	01/01/19 01:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-09 B6@15 [Soil] Sampled 12/18/18 02:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:10	
8260 5035	12/27/18 15:00	5	01/01/19 02:10	
8270C	12/27/18 15:00	5	01/01/19 02:10	
T183753-10 B7@1 [Soil] Sampled 12/18/18 02:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:40	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:40	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:40	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:40	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:40	
8082 PCB	12/27/18 15:00	5	01/01/19 02:40	
8260 5035	12/27/18 15:00	5	01/01/19 02:40	
8270C	12/27/18 15:00	5	01/01/19 02:40	
T183753-11 B7@5 [Soil] Sampled 12/18/18 02:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:50	
8082 PCB	12/27/18 15:00	5	01/01/19 02:50	
8260 5035	12/27/18 15:00	5	01/01/19 02:50	
8270C	12/27/18 15:00	5	01/01/19 02:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-12 B7@10 [Soil] Sampled 12/18/18 03:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:00	
8082 PCB	12/27/18 15:00	5	01/01/19 03:00	
8260 5035	12/27/18 15:00	5	01/01/19 03:00	
8270C	12/27/18 15:00	5	01/01/19 03:00	
T183753-13 B7@15 [Soil] Sampled 12/18/18 03:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:10	
8260 5035	12/27/18 15:00	5	01/01/19 03:10	
8270C	12/27/18 15:00	5	01/01/19 03:10	
T183753-14 B8@1 [Soil] Sampled 12/18/18 03:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:50	
8082 PCB	12/27/18 15:00	5	01/01/19 03:50	
8260 5035	12/27/18 15:00	5	01/01/19 03:50	
8270C	12/27/18 15:00	5	01/01/19 03:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-15 B8@5 [Soil] Sampled 12/18/18 04:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:00	
8082 PCB	12/27/18 15:00	5	01/01/19 04:00	
8260 5035	12/27/18 15:00	5	01/01/19 04:00	
8270C	12/27/18 15:00	5	01/01/19 04:00	

T183753-16 B8@9 [Soil] Sampled 12/18/18 04:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:15	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:15	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:15	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:15	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:15	
8082 PCB	12/27/18 15:00	5	01/01/19 04:15	
8260 5035	12/27/18 15:00	5	01/01/19 04:15	
8270C	12/27/18 15:00	5	01/01/19 04:15	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



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

10 January 2019

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Holland Sunset

Enclosed are the results of analyses for samples received by the laboratory on 12/18/18 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joann Marroquin
Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/10/19 15:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B5@1	T183753-01	Soil	12/18/18 00:01	12/18/18 11:30

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.

Joann Marroquin, Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/10/19 15:22

DETECTIONS SUMMARY

Sample ID: B5@1

Laboratory ID: T183753-01

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	12	0.10	mg/l	STLC Waste Extraction T	

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/10/19 15:22

B5@1
T183753-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

TCLP Metals by 6000/7000 Series Methods

Lead	ND	0.10	mg/l	1	9010946	01/09/19	01/10/19	EPA 1311	
------	----	------	------	---	---------	----------	----------	----------	--

STLC Metals by 6000/7000 Series Methods

Lead	12	0.10	mg/l	1	9010730	01/07/19	01/09/19	STLC Waste Extraction Test	
------	----	------	------	---	---------	----------	----------	----------------------------------	--

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/10/19 15:22

TCLP Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

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

Batch 9010946 - TCLP Metals

Blank (9010946-BLK1)

Prepared: 01/09/19 Analyzed: 01/10/19

Lead	ND	0.10	mg/l
------	----	------	------

LCS (9010946-BS1)

Prepared: 01/09/19 Analyzed: 01/10/19

Lead	0.499	0.10	mg/l	0.500	99.8	75-125
------	-------	------	------	-------	------	--------

Matrix Spike (9010946-MS1)

Source: T183753-01

Prepared: 01/09/19 Analyzed: 01/10/19

Lead	0.524	0.10	mg/l	0.500	0.0173	101	75-125
------	-------	------	------	-------	--------	-----	--------

Matrix Spike Dup (9010946-MSD1)

Source: T183753-01

Prepared: 01/09/19 Analyzed: 01/10/19

Lead	0.513	0.10	mg/l	0.500	0.0173	99.2	75-125	2.16	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.

Joann Marroquin, Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/10/19 15:22

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

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

Batch 9010730 - STLC Metals

Blank (9010730-BLK1)

Prepared: 01/07/19 Analyzed: 01/09/19

Lead	ND	0.10	mg/l
------	----	------	------

LCS (9010730-BS1)

Prepared: 01/07/19 Analyzed: 01/09/19

Lead	8.65	0.10	mg/l	10.0	86.5	75-125
------	------	------	------	------	------	--------

Matrix Spike (9010730-MS1)

Source: T183753-01

Prepared: 01/07/19 Analyzed: 01/09/19

Lead	20.2	0.10	mg/l	10.0	11.7	85.9	75-125
------	------	------	------	------	------	------	--------

Matrix Spike Dup (9010730-MSD1)

Source: T183753-01

Prepared: 01/07/19 Analyzed: 01/09/19

Lead	19.9	0.10	mg/l	10.0	11.7	82.1	75-125	1.92	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.

Joann Marroquin, Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
01/10/19 15:22

Notes and Definitions

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

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.

Joann Marroquin, Client Services Manager



**SunStar
Laboratories**

Chain of Custody Record

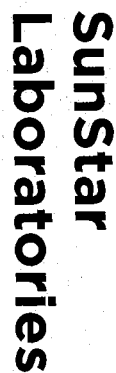
25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental Mgmt Inc
Address: 2444 Ridge Road Dr #130
Phone: 949.375.7004 Fax: _____
Project Manager: Derek Wilbur

Date: 12/18/18 Page: 1 Of _____
Project Name: Holmes SunStar
Collector: D Wilbur Client Project #: 2047.17.01
Batch #: 7183758 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time (am)	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	PCBs 8082	PCPs 8081	Comments/Preservative	Total # of containers
01	B501	12/18/18	12:01	Soil	5L + 500mL acetate	X			X		X		X	X					
02	B505		12:05			X			X		X		X	X					
03	B5010		12:20			X			X		X		X	X					
04	B5015		12:35			X			X		X		X	X					
05	B5017		12:45			X			X		X		X	X					
06	B601		1:20			X			X		X		X	X					
07	B605		1:35			X			X		X		X	X					
08	B610		1:50			X			X		X		X	X					
09	B615		2:10			X			X		X		X	X					
10	B701		2:40			X			X		X		X	X					
11	B705		2:50			X			X		X		X	X					
12	B710		3:00			X			X		X		X	X					
13	B715		3:10			X			X		X		X	X					
14	B801		3:50			X			X		X		X	X					
15	B805		4:00			X			X		X		X	X					
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Chain of Custody seals Y/N/A		Seals intact? Y/N/A		Received good condition/cold		Turn around time: <u>STB</u>		Notes		Total # of containers	
Relinquished by: (signature)		12/18/18 11:50		Received by: (signature)		12/18/18 11:30													
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time													
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time													

COC 180559



Chain of Custody Record

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental Mgmt Inc
Address: 24411 Ridg Road Dr #130
Phone: 444.325.7004 Fax: _____
Project Manager: Derek Willis

Date: 12/18/18 Page: _____ Of _____
Project Name: Norand Sunset
Collector: D Wilson Client Project #: 2047.17.01
Batch #: 71837558 EDF #: _____

Page 9 of 32

[illegible]

COC 180560

Joann Marroquin

From: Derrick Willis [derrick.willis@ngem.com]
Sent: Monday, January 07, 2019 5:05 PM
To: Joann Marroquin
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Yes, thanks

From: Joann Marroquin [mailto:joann@sunstarlabs.com]
Sent: Monday, January 7, 2019 5:04 PM
To: 'Joann Marroquin'; 'Derrick Willis'
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Do you need 3-day TAT on this one too?

Joann Marroquin
Southern California Sales/CSM



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Accreditation: 2250 | State of Nevada Accreditation: CA012842019-1
ISO/IEC 17025 Accreditation: AT-2642 | CA Small Business Certification: 31511

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From: Joann Marroquin [mailto:joann@sunstarlabs.com]
Sent: Monday, January 07, 2019 4:59 PM
To: 'Derrick Willis'
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Derrick,

What TAT do you need for this?

Joann Marroquin
Southern California Sales/CSM



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
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From: Derrick Willis [mailto:derrick.willis@ngem.com]
Sent: Monday, January 07, 2019 2:57 PM
To: Joann Marroquin
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Joann,
Please run B5-1 for STLC lead. Depending on results, we may need to run a TCLP as well.
Thanks
Derrick



Derrick S. Willis
Principal

Northgate Environmental Management, Inc.
24411 Ridge Route Drive, Suite 130, Laguna Hills, CA 92653
phone (949) 716-0050 ext. 101; cell (949) 375-7004; fax (949) 315-3365
<http://www.ngem.com>

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From: Joann Marroquin [mailto:joann@sunstarlabs.com]
Sent: Thursday, December 27, 2018 5:02 PM
To: 'Derrick Willis'
Cc: accounting@sunstarlabs.com; Milton Tso; Randa Bitar
Subject: Final Report and Invoice for Holland Street (T183753)

Derrick,

Please find attached the final report and invoice for the following:

Project: **Holland Street**
Project Number: **2047.17.01**

If I can provide any additional information, please let me know.

We appreciate your business!

Best regards,
Joann

Shipping Alert:

Please note that SunStar Laboratories will be observing the upcoming Christmas and New Year's holidays on December 24th, 25th, and January 1st. We will be closed on Monday and Tuesday for Christmas Eve and Christmas day as well as Tuesday, New Year's Day. In addition, GSO will not have scheduled service on these days. If you have any short hold

samples arriving near or during these days, please contact your Project Manager in advance to ensure all holding times are met for your samples.

We appreciate your business and hope that you have a wonderful and safe holiday!

Joann Marroquin
Southern California Sales/CSM



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
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Joann Marroquin

From: Derrick Willis [derrick.willis@ngem.com]
Sent: Wednesday, January 09, 2019 11:33 AM
To: Joann Marroquin
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Joann,
Please also run lead for TCLP. 3-day TAT. Thanks
Derrick

From: Derrick Willis [mailto:derrick.willis@ngem.com]
Sent: Monday, January 7, 2019 2:57 PM
To: 'Joann Marroquin'
Subject: RE: Final Report and Invoice for Holland Street (T183753)

Joann,
Please run B5-1 for STLC lead. Depending on results, we may need to run a TCLP as well.
Thanks
Derrick



Derrick S. Willis
Principal

Northgate Environmental Management, Inc.
24411 Ridge Route Drive, Suite 130, Laguna Hills, CA 92653
phone (949) 716-0050 ext. 101; cell (949) 375-7004; fax (949) 315-3365
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From: Joann Marroquin [mailto:joann@sunstarlabs.com]
Sent: Thursday, December 27, 2018 5:02 PM
To: 'Derrick Willis'
Cc: accounting@sunstarlabs.com; Milton Tso; Randa Bitar
Subject: Final Report and Invoice for Holland Street (T183753)

Derrick,

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Project: **Holland Street**
Project Number: **2047.17.01**

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Best regards,

Joann

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We appreciate your business and hope that you have a wonderful and safe holiday!

Joann Marroquin

Southern California Sales/CSM



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SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

7183153

Client Name:

NORTHGATE ENV

Project:

HOLLAND SUNSET

Delivered by:

☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by:

Date/Time Courier

Received:

Lab Received by:

SUNNY

Date/Time Lab

Received:

12-18-18 / 11:30

Total number of coolers received: 1

Temperature: Cooler #1 3.2 °C +/- the CF (1.2°C) = 4.4 °C corrected temperature

Temperature: Cooler #2 °C +/- the CF (1.2°C) = °C corrected temperature

Temperature: Cooler #3 °C +/- the CF (1.2°C) = °C corrected temperature

Temperature criteria = $\leq 6^{\circ}\text{C}$
(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 12-18-18

Comments:

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna
Project: Holland Sunset

Project Manager: Joann Marroquin
Project Number: 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 12/27/18 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 12/18/18 11:30

Logged In By: Sunny Lounethone

Date Logged In: 12/18/18 14:03

Samples Received at: 4.4°C

Custody Seals No **Received On Ice** Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T183753-01 B5@1 [Soil] Sampled 12/18/18 12:01 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	06/16/19 12:01	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:01	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:01	
8081 Pesticides	12/27/18 15:00	5	01/01/19 12:01	
8082 PCB	12/27/18 15:00	5	01/01/19 12:01	
8260 5035	12/27/18 15:00	5	01/01/19 12:01	
8270C	12/27/18 15:00	5	01/01/19 12:01	

T183753-02 B5@5 [Soil] Sampled 12/18/18 12:05 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	06/16/19 12:05	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:05	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:05	
8081 Pesticides	12/27/18 15:00	5	01/01/19 12:05	
8082 PCB	12/27/18 15:00	5	01/01/19 12:05	
8260 5035	12/27/18 15:00	5	01/01/19 12:05	
8270C	12/27/18 15:00	5	01/01/19 12:05	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-03 B5@10 [Soil] Sampled 12/18/18 12:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 12:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 12:20	
8082 PCB	12/27/18 15:00	5	01/01/19 12:20	
8260 5035	12/27/18 15:00	5	01/01/19 12:20	
8270C	12/27/18 15:00	5	01/01/19 12:20	
T183753-04 B5@15 [Soil] Sampled 12/18/18 12:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 12:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:35	
8260 5035	12/27/18 15:00	5	01/01/19 12:35	
8270C	12/27/18 15:00	5	01/01/19 12:35	
T183753-05 B5@17 [Soil] Sampled 12/18/18 12:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 12:45	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 12:45	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 12:45	
8260 5035	12/27/18 15:00	5	01/01/19 12:45	
T183753-06 B6@1 [Soil] Sampled 12/18/18 13:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 13:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:20	
8082 PCB	12/27/18 15:00	5	01/01/19 13:20	
8260 5035	12/27/18 15:00	5	01/01/19 13:20	
8270C	12/27/18 15:00	5	01/01/19 13:20	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-07 B6@5 [Soil] Sampled 12/18/18 13:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 13:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:35	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:35	
8082 PCB	12/27/18 15:00	5	01/01/19 13:35	
8260 5035	12/27/18 15:00	5	01/01/19 13:35	
8270C	12/27/18 15:00	5	01/01/19 13:35	
T183753-08 B6@10 [Soil] Sampled 12/18/18 13:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 13:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:50	
8082 PCB	12/27/18 15:00	5	01/01/19 13:50	
8260 5035	12/27/18 15:00	5	01/01/19 13:50	
8270C	12/27/18 15:00	5	01/01/19 13:50	
T183753-09 B6@15 [Soil] Sampled 12/18/18 14:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 14:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 14:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 14:10	
8260 5035	12/27/18 15:00	5	01/01/19 14:10	
8270C	12/27/18 15:00	5	01/01/19 14:10	
T183753-10 B7@1 [Soil] Sampled 12/18/18 14:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 14:40	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 14:40	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 14:40	
8081 Pesticides	12/27/18 15:00	5	01/01/19 14:40	
8082 PCB	12/27/18 15:00	5	01/01/19 14:40	
8260 5035	12/27/18 15:00	5	01/01/19 14:40	
8270C	12/27/18 15:00	5	01/01/19 14:40	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-11 B7@5 [Soil] Sampled 12/18/18 14:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 14:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 14:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 14:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 14:50	
8082 PCB	12/27/18 15:00	5	01/01/19 14:50	
8260 5035	12/27/18 15:00	5	01/01/19 14:50	
8270C	12/27/18 15:00	5	01/01/19 14:50	
T183753-12 B7@10 [Soil] Sampled 12/18/18 15:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 15:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 15:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 15:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 15:00	
8082 PCB	12/27/18 15:00	5	01/01/19 15:00	
8260 5035	12/27/18 15:00	5	01/01/19 15:00	
8270C	12/27/18 15:00	5	01/01/19 15:00	
T183753-13 B7@15 [Soil] Sampled 12/18/18 15:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 15:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 15:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 15:10	
8260 5035	12/27/18 15:00	5	01/01/19 15:10	
8270C	12/27/18 15:00	5	01/01/19 15:10	
T183753-14 B8@1 [Soil] Sampled 12/18/18 15:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 15:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 15:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 15:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 15:50	
8082 PCB	12/27/18 15:00	5	01/01/19 15:50	
8260 5035	12/27/18 15:00	5	01/01/19 15:50	
8270C	12/27/18 15:00	5	01/01/19 15:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-15 B8@5 [Soil] Sampled 12/18/18 16:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 16:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 16:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 16:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 16:00	
8082 PCB	12/27/18 15:00	5	01/01/19 16:00	
8260 5035	12/27/18 15:00	5	01/01/19 16:00	
8270C	12/27/18 15:00	5	01/01/19 16:00	

T183753-16 B8@9 [Soil] Sampled 12/18/18 16:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	06/16/19 16:15	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 16:15	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 16:15	
8081 Pesticides	12/27/18 15:00	5	01/01/19 16:15	
8082 PCB	12/27/18 15:00	5	01/01/19 16:15	
8260 5035	12/27/18 15:00	5	01/01/19 16:15	
8270C	12/27/18 15:00	5	01/01/19 16:15	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 01/10/19 17:00 (14 day TAT)

Received By: Sunny Lounethone

Date Received: 12/18/18 11:30

Logged In By: Sunny Lounethone

Date Logged In: 12/18/18 14:03

Samples Received at: **4.4°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T183753-01 B5@1 [Soil] Sampled 12/18/18 00:01 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	12/23/18 00:01	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:01	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:01	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:01	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:01	
8082 PCB	12/27/18 15:00	5	01/01/19 00:01	
8260 5035	12/27/18 15:00	5	01/01/19 00:01	
8270C	12/27/18 15:00	5	01/01/19 00:01	
STLC Pb	01/10/19 15:00	5	06/16/19 00:01	
STLC Leaching Procedure Metals	01/10/19 15:00	5	06/16/19 00:01	Added STLC Pb 1/7/19 Due 1/10/19

T183753-02 B5@5 [Soil] Sampled 12/18/18 00:05 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/27/18 15:00	5	12/23/18 00:05
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:05
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:05
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:05
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:05
8082 PCB	12/27/18 15:00	5	01/01/19 00:05
8260 5035	12/27/18 15:00	5	01/01/19 00:05
8270C	12/27/18 15:00	5	01/01/19 00:05

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-03 B5@10 [Soil] Sampled 12/18/18 00:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:20	
8082 PCB	12/27/18 15:00	5	01/01/19 00:20	
8260 5035	12/27/18 15:00	5	01/01/19 00:20	
8270C	12/27/18 15:00	5	01/01/19 00:20	
T183753-04 B5@15 [Soil] Sampled 12/18/18 00:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:35	
8260 5035	12/27/18 15:00	5	01/01/19 00:35	
8270C	12/27/18 15:00	5	01/01/19 00:35	
T183753-05 B5@17 [Soil] Sampled 12/18/18 00:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:45	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:45	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:45	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:45	
8260 5035	12/27/18 15:00	5	01/01/19 00:45	
T183753-06 B6@1 [Soil] Sampled 12/18/18 01:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:20	
8082 PCB	12/27/18 15:00	5	01/01/19 01:20	
8260 5035	12/27/18 15:00	5	01/01/19 01:20	
8270C	12/27/18 15:00	5	01/01/19 01:20	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-07 B6@5 [Soil] Sampled 12/18/18 13:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 13:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 13:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:35	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:35	
8082 PCB	12/27/18 15:00	5	01/01/19 13:35	
8260 5035	12/27/18 15:00	5	01/01/19 13:35	
8270C	12/27/18 15:00	5	01/01/19 13:35	
T183753-08 B6@10 [Soil] Sampled 12/18/18 01:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:50	
8082 PCB	12/27/18 15:00	5	01/01/19 01:50	
8260 5035	12/27/18 15:00	5	01/01/19 01:50	
8270C	12/27/18 15:00	5	01/01/19 01:50	
T183753-09 B6@15 [Soil] Sampled 12/18/18 02:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:10	
8260 5035	12/27/18 15:00	5	01/01/19 02:10	
8270C	12/27/18 15:00	5	01/01/19 02:10	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-10 B7@1 [Soil] Sampled 12/18/18 02:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:40	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:40	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:40	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:40	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:40	
8082 PCB	12/27/18 15:00	5	01/01/19 02:40	
8260 5035	12/27/18 15:00	5	01/01/19 02:40	
8270C	12/27/18 15:00	5	01/01/19 02:40	
T183753-11 B7@5 [Soil] Sampled 12/18/18 02:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:50	
8082 PCB	12/27/18 15:00	5	01/01/19 02:50	
8260 5035	12/27/18 15:00	5	01/01/19 02:50	
8270C	12/27/18 15:00	5	01/01/19 02:50	
T183753-12 B7@10 [Soil] Sampled 12/18/18 03:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:00	
8082 PCB	12/27/18 15:00	5	01/01/19 03:00	
8260 5035	12/27/18 15:00	5	01/01/19 03:00	
8270C	12/27/18 15:00	5	01/01/19 03:00	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-13 B7@15 [Soil] Sampled 12/18/18 03:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:10	
8260 5035	12/27/18 15:00	5	01/01/19 03:10	
8270C	12/27/18 15:00	5	01/01/19 03:10	
T183753-14 B8@1 [Soil] Sampled 12/18/18 03:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:50	
8082 PCB	12/27/18 15:00	5	01/01/19 03:50	
8260 5035	12/27/18 15:00	5	01/01/19 03:50	
8270C	12/27/18 15:00	5	01/01/19 03:50	
T183753-15 B8@5 [Soil] Sampled 12/18/18 04:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:00	
8082 PCB	12/27/18 15:00	5	01/01/19 04:00	
8260 5035	12/27/18 15:00	5	01/01/19 04:00	
8270C	12/27/18 15:00	5	01/01/19 04:00	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-16 B8@9 [Soil] Sampled 12/18/18 04:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:15	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:15	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:15	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:15	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:15	
8082 PCB	12/27/18 15:00	5	01/01/19 04:15	
8260 5035	12/27/18 15:00	5	01/01/19 04:15	
8270C	12/27/18 15:00	5	01/01/19 04:15	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 01/10/19 17:00 (14 day TAT)
Received By: Sunny Lounethone **Date Received:** 12/18/18 11:30
Logged In By: Sunny Lounethone **Date Logged In:** 12/18/18 14:03

Samples Received at: 4.4°C
Custody Seals: No **Received On Ice:** Yes
Containers Intact: Yes
COC/Labels Agree: Yes
Preservation Confirmed: Yes

Analysis	Due	TAT	Expires	Comments
T183753-01 B5@1 [Soil] Sampled 12/18/18 00:01 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:01	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:01	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:01	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:01	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:01	
8082 PCB	12/27/18 15:00	5	01/01/19 00:01	
8260 5035	12/27/18 15:00	5	01/01/19 00:01	
8270C	12/27/18 15:00	5	01/01/19 00:01	
STLC Pb	01/10/19 15:00	5	06/16/19 00:01	
STLC Leaching Procedure Metals	01/10/19 15:00	5	06/16/19 00:01	Added STLC Pb 1/7/19 Due 1/10/19
TCLP Leaching Procedure Metals	01/10/19 15:00	5	06/16/19 00:01	
TCLP Pb	01/10/19 15:00	5	06/16/19 00:01	Added on 1/9/19 Due 1/10/19

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-02 B5@5 [Soil] Sampled 12/18/18 00:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:05	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:05	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:05	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:05	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:05	
8082 PCB	12/27/18 15:00	5	01/01/19 00:05	
8260 5035	12/27/18 15:00	5	01/01/19 00:05	
8270C	12/27/18 15:00	5	01/01/19 00:05	
T183753-03 B5@10 [Soil] Sampled 12/18/18 00:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 00:20	
8082 PCB	12/27/18 15:00	5	01/01/19 00:20	
8260 5035	12/27/18 15:00	5	01/01/19 00:20	
8270C	12/27/18 15:00	5	01/01/19 00:20	
T183753-04 B5@15 [Soil] Sampled 12/18/18 00:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:35	
8260 5035	12/27/18 15:00	5	01/01/19 00:35	
8270C	12/27/18 15:00	5	01/01/19 00:35	
T183753-05 B5@17 [Soil] Sampled 12/18/18 00:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 00:45	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 00:45	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 00:45	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 00:45	
8260 5035	12/27/18 15:00	5	01/01/19 00:45	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-06 B6@1 [Soil] Sampled 12/18/18 01:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:20	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:20	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:20	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:20	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:20	
8082 PCB	12/27/18 15:00	5	01/01/19 01:20	
8260 5035	12/27/18 15:00	5	01/01/19 01:20	
8270C	12/27/18 15:00	5	01/01/19 01:20	
T183753-07 B6@5 [Soil] Sampled 12/18/18 13:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 13:35	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 13:35	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 13:35	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 13:35	
8081 Pesticides	12/27/18 15:00	5	01/01/19 13:35	
8082 PCB	12/27/18 15:00	5	01/01/19 13:35	
8260 5035	12/27/18 15:00	5	01/01/19 13:35	
8270C	12/27/18 15:00	5	01/01/19 13:35	
T183753-08 B6@10 [Soil] Sampled 12/18/18 01:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 01:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 01:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 01:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 01:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 01:50	
8082 PCB	12/27/18 15:00	5	01/01/19 01:50	
8260 5035	12/27/18 15:00	5	01/01/19 01:50	
8270C	12/27/18 15:00	5	01/01/19 01:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-09 B6@15 [Soil] Sampled 12/18/18 02:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:10	
8260 5035	12/27/18 15:00	5	01/01/19 02:10	
8270C	12/27/18 15:00	5	01/01/19 02:10	
T183753-10 B7@1 [Soil] Sampled 12/18/18 02:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:40	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:40	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:40	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:40	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:40	
8082 PCB	12/27/18 15:00	5	01/01/19 02:40	
8260 5035	12/27/18 15:00	5	01/01/19 02:40	
8270C	12/27/18 15:00	5	01/01/19 02:40	
T183753-11 B7@5 [Soil] Sampled 12/18/18 02:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 02:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 02:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 02:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 02:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 02:50	
8082 PCB	12/27/18 15:00	5	01/01/19 02:50	
8260 5035	12/27/18 15:00	5	01/01/19 02:50	
8270C	12/27/18 15:00	5	01/01/19 02:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna	Project Manager: Joann Marroquin
Project: Holland Sunset	Project Number: 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-12 B7@10 [Soil] Sampled 12/18/18 03:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:00	
8082 PCB	12/27/18 15:00	5	01/01/19 03:00	
8260 5035	12/27/18 15:00	5	01/01/19 03:00	
8270C	12/27/18 15:00	5	01/01/19 03:00	
T183753-13 B7@15 [Soil] Sampled 12/18/18 03:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:10	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:10	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:10	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:10	
8260 5035	12/27/18 15:00	5	01/01/19 03:10	
8270C	12/27/18 15:00	5	01/01/19 03:10	
T183753-14 B8@1 [Soil] Sampled 12/18/18 03:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 03:50	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 03:50	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 03:50	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 03:50	
8081 Pesticides	12/27/18 15:00	5	01/01/19 03:50	
8082 PCB	12/27/18 15:00	5	01/01/19 03:50	
8260 5035	12/27/18 15:00	5	01/01/19 03:50	
8270C	12/27/18 15:00	5	01/01/19 03:50	

WORK ORDER

T183753

Client: Northgate Environmental Management -- Laguna **Project Manager:** Joann Marroquin
Project: Holland Sunset **Project Number:** 2047.17.01

Analysis	Due	TAT	Expires	Comments
T183753-15 B8@5 [Soil] Sampled 12/18/18 04:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:00	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:00	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:00	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:00	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:00	
8082 PCB	12/27/18 15:00	5	01/01/19 04:00	
8260 5035	12/27/18 15:00	5	01/01/19 04:00	
8270C	12/27/18 15:00	5	01/01/19 04:00	

T183753-16 B8@9 [Soil] Sampled 12/18/18 04:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/27/18 15:00	5	12/23/18 04:15	
8015 Carbon Chain	12/27/18 15:00	5	01/01/19 04:15	
8015 CC (6-12)(13-22)(23-32)	12/21/18 15:00	3	01/01/19 04:15	
8015 m 5035-GRO	12/27/18 15:00	5	01/01/19 04:15	
8081 Pesticides	12/27/18 15:00	5	01/01/19 04:15	
8082 PCB	12/27/18 15:00	5	01/01/19 04:15	
8260 5035	12/27/18 15:00	5	01/01/19 04:15	
8270C	12/27/18 15:00	5	01/01/19 04:15	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



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

27 December 2018

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Holland Sunset

Enclosed are the results of analyses for samples received by the laboratory on 12/18/18 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joann Marroquin
Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1	T183754-01	Air	12/18/18 05:30	12/18/18 11:30
B2	T183754-02	Air	12/18/18 06:50	12/18/18 11:30
B3	T183754-03	Air	12/18/18 07:27	12/18/18 11:30
B7	T183754-04	Air	12/18/18 08:04	12/18/18 11:30

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.

Joann Marroquin, Client Services Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

DETECTIONS SUMMARY

Sample ID: B1 Laboratory ID: T183754-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	8.1	6.9	ug/m ³ Air	TO-15	
Trichloroethene	6.7	5.5	ug/m ³ Air	TO-15	

Sample ID: B2 Laboratory ID: T183754-02

No Results Detected

Sample ID: B3 Laboratory ID: T183754-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
1,1,2-Trichloroethane	1700	280	ug/m ³ Air	TO-15	TO-14
Ethylbenzene	1300	220	ug/m ³ Air	TO-15	TO-14
m,p-Xylene	5500	220	ug/m ³ Air	TO-15	TO-14
o-Xylene	1700	220	ug/m ³ Air	TO-15	TO-14

Sample ID: B7 Laboratory ID: T183754-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	110	12	ug/m ³ Air	TO-15	
Carbon Disulfide	3.8	3.2	ug/m ³ Air	TO-15	
Cyclohexane	7.6	3.5	ug/m ³ Air	TO-15	
Heptane	23	4.2	ug/m ³ Air	TO-15	
Hexane	16	3.6	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	520	5.0	ug/m ³ Air	TO-15	
Trichloroethene	7.7	5.5	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	8.6	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	35	15	ug/m ³ Air	TO-15	
Benzene	18	3.3	ug/m ³ Air	TO-15	
Toluene	53	3.8	ug/m ³ Air	TO-15	

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager



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Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

Sample ID: B7

Laboratory ID: T183754-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Ethylbenzene	120	4.4		ug/m ³ Air	TO-15	
m,p-Xylene	410	8.8		ug/m ³ Air	TO-15	
o-Xylene	120	4.4		ug/m ³ Air	TO-15	

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B1
T183754-01 (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 ³ Air	1.41	8121946	12/19/18	12/21/18	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	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager



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Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B1
T183754-01 (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 ³ Air	1.41	8121946	12/19/18	12/21/18	TO-15
Styrene	ND	4.3	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"
Tetrachloroethene	8.1	6.9	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"
Trichloroethene	6.7	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 97.8 % 40-160 " " " "

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B2

T183754-02 (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 ³ Air	1.48	8121946	12/19/18	12/21/18	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	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B2

T183754-02 (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 ³ Air	1.48	8121946	12/19/18	12/21/18	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	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 " " " "

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B3

T183754-03 (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 ³ Air	1.56	8121946	12/19/18	12/20/18	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

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B3

T183754-03 (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 ³ Air	1.56	8121946	12/19/18	12/20/18	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	1700	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	1300	220	"	"	"	"	"	"	TO-14
m,p-Xylene	5500	220	"	"	"	"	"	"	TO-14
o-Xylene	1700	220	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B7

T183754-04 (Air)

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

TO-15

Acetone	110	12	ug/m ³ Air	1.4	8121946	12/19/18	12/21/18	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	3.8	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	7.6	3.5	"	"	"	"	"	"	
Heptane	23	4.2	"	"	"	"	"	"	
Hexane	16	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	520	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	"	"	"	"	"	"	

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

B7

T183754-04 (Air)

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

TO-15

Styrene	ND	4.3	ug/m ³ Air	1.4	8121946	12/19/18	12/21/18	TO-15
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"
Tetrachloroethene	ND	6.9	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"
Trichloroethene	7.7	5.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	8.6	5.0	"	"	"	"	"	"
Vinyl acetate	ND	3.6	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"
1,4-Dioxane	ND	18	"	"	"	"	"	"
2-Butanone (MEK)	35	15	"	"	"	"	"	"
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"
Benzene	18	3.3	"	"	"	"	"	"
Toluene	53	3.8	"	"	"	"	"	"
Ethylbenzene	120	4.4	"	"	"	"	"	"
m,p-Xylene	410	8.8	"	"	"	"	"	"
o-Xylene	120	4.4	"	"	"	"	"	"

Surrogate: 4-Bromofluorobenzene 95.5 % 40-160 " " " "

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24411 Ridge Route Drive, Suite 130
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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

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 8121946 - Canister Analysis

Blank (8121946-BLK1)

Prepared: 12/19/18 Analyzed: 12/21/18

Acetone	ND	12	ug/m ³ 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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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

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 8121946 - Canister Analysis

Blank (8121946-BLK1)

Prepared: 12/19/18 Analyzed: 12/21/18

Tetrachloroethene	ND	6.9	ug/m ³ 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	"							
Surrogate: 4-Bromofluorobenzene	350		"	362		96.8	40-160			

Duplicate (8121946-DUP1)

Source: T183743-01

Prepared & Analyzed: 12/19/18

Acetone	ND	120	ug/m ³ 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

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager



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

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

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 8121946 - Canister Analysis

Duplicate (8121946-DUP1)	Source: T183743-01			Prepared & Analyzed: 12/19/18					
Hexane	ND	180	ug/m ³ Air		ND			30	TO-14
Dibromochloromethane	ND	430	"		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	1830	350	"		1840		0.289	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	ND	160	"		ND			30	TO-14
Toluene	ND	190	"		ND			30	TO-14
Ethylbenzene	ND	220	"		ND			30	TO-14
m,p-Xylene	ND	220	"		ND			30	TO-14

SunStar Laboratories, Inc.

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12/27/18 16:02

TO-15 - Quality Control

SunStar Laboratories, Inc.

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

Batch 8121946 - Canister Analysis

Duplicate (8121946-DUP1)

Source: T183743-01

Prepared & Analyzed: 12/19/18

o-Xylene	ND	220	ug/m ³ Air		ND			30		TO-14
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SunStar Laboratories, Inc.

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Project: Holland Sunset
Project Number: 2047.17.01
Project Manager: Derrick Willis

Reported:
12/27/18 16:02

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

SunStar Laboratories, Inc.

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Joann Marroquin, Client Services Manager

Chain of Custody Record



PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Date: 12/18/18 Page: 1 Of
Project Name: Hamp Sunset
Collector: D Willis Client Project #: 20471.12.01
Batch #: 7183754 EDF #:

Batch #: 7183754 EDF #: _____

Total # of containers _____
Chain of Custody seals Y/N/NA NA
Seals intact? Y/N/NA NA
Received good condition/cold _____
Turn around time: STD

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

COCAL 165932

SunStar Laboratories Inc.
25712 Commerce Centre Dr.
Lake Forest, CA 92630

(949)297-5020
(949)297-5027 fax
(530)304-5525 Bill Hannel

Form F-LP0005-1.2

Effective Date: 01/01/2017

* PLEASE DO **NOT** WRITE ON OR PLACE LABELS ON SUMMA CANS



SunStar
LABORATORIES

Canister Data Sheet

Client: **NORTHGATE_DERRICK_12-14-18_7+5_HOLLAND - SUNSET**

Shipping Information		CHECK		Pressure		Sampling Information		Sample		Initial		Final		Sample		Sample	
Canister Serial #		Date		(-30 +/- 2 psia)		Sample ID		Date		Pressure		Pressure		Start Time		Finish Time	
SSAT: 0860		12/14/2018		-30		B2		12/18/18		-30"		-3"		06:50		06:59	
SSAT: 0753		12/14/2018		-30		B1		12/18/18		-30"		-2.5"		08:04		08:13	
SSAT: 0712		12/14/2018		-30		B8		12/18/18		-30"		-3"		08:44		08:56	
SSAT: 0373		12/14/2018		-30		B7		12/18/18		-30"		-2.5"		08:04		08:13	
SSAT: 0358		12/14/2018		-30		B1		12/18/18		-30"		-3"		05:30		05:44	
SSAT: 0644		12/14/2018		-30		B3		12/18/18		-29"		-3"		07:27		07:35	
SSAT: 2060		12/14/2018				MANIFOLDS (150)											
SSAT: 2048		12/14/2018				MANIFOLDS (150)											
SSAT: 2037		12/14/2018				MANIFOLDS (150)											
SSAT: 2032		12/14/2018				MANIFOLDS (150)											
SSAT: 2059		12/14/2018				MANIFOLDS (150)											
SSAT: 6000		12/14/2018		-30		6L PURGE CAN											

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7183754

Client Name: NORTHGATE ENV. Project: HOLLAND SUNSET

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNIL Date/Time Lab Received: 12.18.18 / 11:30

Total number of coolers received: 0

Temperature: Cooler #1	-	°C +/- the CF (1.2°C) =	-	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (1.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (1.2°C) =		°C corrected temperature

**Temperature criteria = $\leq 6^{\circ}\text{C}$
(no frozen containers)**

Within criteria?

☐ Yes ☐ No

If NO:

Samples received on ice?

☐ Yes

If on ice, samples received same day collected?

☐ Yes \rightarrow Acceptable

☐ No \rightarrow

Complete Non-Conformance Sheet

☐ No \rightarrow

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 12.18.18

Comments:

Project Name: HOLLAND - SUNSET			Rebecca
Company: NORTHGATE			BC
Name: DERRICK WILLIS			
Item	Quantity	Unit	
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 120/CS			
1 Liter Poly 36/CS			
500 ml Poly 60/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	120	EA	
(1) Methanol VOA 72/box	60	EA	
(1)Syringe 50/pack	60	EA	
Lock-N-Load Handle 1/ea	1	EA	
Tedlar Bags 10/pack			
Sub Slab Insert w/ washer & N/F			
Soil Gas SS 16" Drop Tubes			
Gas Extraction Fittings			
Soil Gas Filters			
Volume of Summa	# Sent	Used	Unused
Batch Certified Summa Canisters			
400cc			
1L	6	CHARGE - 5	
3L			
6L			
Purge cans	6	CHARGE - 1	
Nitrogen cans			
Ind. Cerified Summa Cannisters			
1L			
3L			
6L			
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0			
Manifolds: Inst. Sampler, Variable Sampler	5-MANIFOLDS (150)		CHARGE - 5
Swagelok Fittings: Nuts/Ferrules, Ts	18-NUTS/FERRULES		CHARGE - 18
Cooler (Sm, Med, Lrg) Number & Quantity	2-LRG		
Other: Poly Tube, Valves, Silicon Tape, etc.	COCs, LABELS, 20FT TEFLON TUBING		CHARGE - 20FT
Prepared By: BRIAN	Date: 12/14/18		
Reviewed By:	Date:		
Comments:			

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 12/18/2018

User Name: Lounethone, Sunny

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0358	1000cc: 1000cc Summa	0358	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
0373	1000cc: 1000cc Summa	0373	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
0753	1000cc: 1000cc Summa	0753	Sunstar Labs, SunStar Labs - South	Northgate-Derrick	Derrick W.
0860	1000cc: 1000cc Summa	0860	Sunstar Labs, SunStar Labs - South	Northgate-Derrick	Derrick W.
2032	Vapor Manifold: Vapor Manifold	2032	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
2037	Vapor Manifold: Vapor Manifold	2037	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
2048	Vapor Manifold: Vapor Manifold	2048	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
2059	Vapor Manifold: Vapor Manifold	2059	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
2060	Vapor Manifold: Vapor Manifold	2060	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
6000	6 L: 6 L Summa	6000	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
644	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Northgate-Derrick	Derrick W.
712	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Northgate-Derrick	Derrick W.

WORK ORDER

T183754

Client: Northgate Environmental Management -- Laguna
Project: Holland Sunset

Project Manager: Joann Marroquin
Project Number: 2047.17.01

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 12/27/18 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 12/18/18 11:30

Logged In By: Sunny Lounethone

Date Logged In: 12/18/18 14:30

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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T183754-01 B1 [Air] Sampled 12/18/18 05:30 (GMT-08:00) Pacific Time (US &

TO-15	12/27/18 15:00	5	01/17/19 05:30
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T183754-02 B2 [Air] Sampled 12/18/18 06:50 (GMT-08:00) Pacific Time (US &

TO-15	12/27/18 15:00	5	01/17/19 06:50
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T183754-03 B3 [Air] Sampled 12/18/18 07:27 (GMT-08:00) Pacific Time (US &

TO-15	12/27/18 15:00	5	01/17/19 07:27
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T183754-04 B7 [Air] Sampled 12/18/18 08:04 (GMT-08:00) Pacific Time (US &

TO-15	12/27/18 15:00	5	01/17/19 08:04
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T183754-05 B8 [Air] Sampled 12/18/18 08:44 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]