



Via Email to losangeles@waterboards.ca.gov

November 11, 2019 In reply refer to SHEA-116137

Information Technology Unit Los Angeles Regional Water Quality Control Board 320 West 4th Street, Suite 200 Los Angeles, California 90013

Subject:

Third Quarter 2019 NPDES Discharge Monitoring Report Compliance File CI-6027 and NPDES No. CA0001309

Santa Susana Field Laboratory Ventura County, California

The Boeing Company (Boeing) hereby submits this Discharge Monitoring Report (DMR) for the Santa Susana Field Laboratory (Santa Susana Site) for the period of July 1 through September 30, 2019 (Third Quarter 2019). This DMR was prepared as required by, and in accordance with the National Pollutant Discharge Elimination System Permit No. CA0001309 (NPDES Permit) issued by the Los Angeles California Regional Water Quality Control Board (Regional Board) in 2015. The NPDES Permit covers the entire Santa Susana Site, which includes approximately 2,400 acres owned by Boeing, approximately 450 acres owned by the United States and administered by the National Aeronautics and Space Administration (NASA), and approximately 290 acres of Boeing's land for which the Department of Energy (DOE) has assumed responsibility for soil remediation.

In addition to reporting results from sampling that occurred during the Third Quarter 2019, this DMR discusses the continuing steps taken in response to the November 2018 Woolsey Wildfire, which caused a substantial loss of vegetation the Santa Susana Site and destroyed many previously installed controls identified as best management practices (BMPs). During the Third Quarter 2019, Boeing continued to assess the BMPs and Boeing's property in general across the Santa Susana Site to reduce sediment and soil in surface water flow.

Hard copies of this DMR are available to the public at the California State University Northridge Oviatt Library, the Simi Valley Public Library, and the Platt Branch of the Los Angeles Public Library. An electronic version of this DMR is located at: http://www.boeing.com/principles/environment/santa-susana/monitoring-reports.page.



THIRD QUARTER 2019 DMR CONTENTS

This DMR includes the following sections and appendices:

- **Discharge and Sample Collection Summary:** This section describes the number of rain events, the number of samples collected, sample dates, and sample locations during the Third Quarter 2019. Table I summarizes the Third Quarter 2019 sampling record by outfall or location and sample type collected per the requirements of the NPDES Permit.
- Third Quarter 2019 Receiving Water Surveys: This section summarizes the receiving water surveys required by the NPDES Permit.
- Third Quarter 2019 Summary of Exceedances and/or Non-Compliance: This section summarizes the Third Quarter 2019 sample results that exceeded NPDES Permit Limits, Benchmarks, and Receiving Water Limits, and the potential causes thereof.
- Third Quarter 2019 Santa Susana Site Stormwater Pollution Prevention Plan (SWPPP)/BMP Activities: This section presents the Santa Susana Site SWPPP and BMP-related activities implemented in the Third Quarter 2019 associated with Woolsey Wildfire Vegetation Restoration as well as activities associated with NASA, DOE, the Stormwater Expert Panel (Expert Panel), the Northern Drainage, and the Outfall 001/002 BMP Compliance Report. Table II summarizes typical BMP-related activities that occur at outfalls every quarter. Table III summarizes specific BMP activities completed during the Third Quarter 2019 by outfall location.
- Figure 1 shows the stormwater collection and conveyance system, the Bell Creek Receiving Water sampling location (RSW-001, Outfall 002), and Santa Susana Site features; Figure 2 shows the Arroyo Simi Receiving Water sampling location (RSW 002, Frontier Park) and upstream monitoring location.
- Appendix A summarizes the rainfall measured at the Santa Susana Site during the Third Quarter 2019.
- Appendix B tabulates waste shipment details during the Third Quarter 2019.
- Appendix C presents chemical analytical results from the Third Quarter 2019 stormwater and/or receiving water sample discharge monitoring in tabular form by outfall locations, constituents evaluated (analytes), sample dates, and data validation qualifiers.
- Appendix D contains copies of the laboratory analytical reports, chain-of-custody forms, and data validation reports (if validation was performed).

DISCHARGE AND SAMPLE COLLECTION SUMMARY

The Santa Susana Site measured no qualifying rain events that produced greater than 0.1 inch of rainfall within a 24-hour period and were preceded by at least 72 hours of dry weather during the Third Quarter 2019 (Appendix A). Automated flow-weighted composite samplers (autosamplers) were set in preparation for all anticipated rain events. No discharge occurred at any of the outfalls; therefore, no samples were collected. There were no changes in the discharge as described in the NPDES Permit during the reporting period.

One quarterly offsite receiving water sample was collected at the Arroyo Simi location (RSW-002, Frontier Park; see Figure 2).



Table I summarizes the Third Quarter 2019 sampling record by location, sample frequency, and sample type collected per NPDES Permit requirements and results are included in Appendix C.

TABLE I: Sampling Record during the Third Quarter 2019

Date	Outfall/Location	Sample Frequency	Sample Type
7/11/2019	Arroyo Simi Receiving Water (RSW-002, Frontier Park)	Quarterly Surface Water	Grab

All analyses were conducted at analytical laboratories certified by the State Water Resources Control Board (SWRCB) for such analyses (i.e., all have current certification from the Environmental Laboratory Accreditation Program [ELAP] established by the California Environmental Laboratory Improvement Act) or have been approved by the SWRCB Executive Officer in accordance with current U.S. Environmental Protection Agency (EPA) guideline procedures or as specified in the NPDES Permit. Laboratory analytical reports, including validation reports (if validation was performed) and notes, are included in Appendix D. Attachment H of the NPDES Permit presents the SWRCB's minimum levels laboratories are expected to achieve for reporting and determining compliance with NPDES Permit Limits. The analytical laboratory achieved these minimum levels in the Third Quarter 2019 except when reporting limits were above the minimum levels (generally due to matrix). In cases where the NPDES Permit Limit was less than the reporting limit and minimum level, the reporting limit was used to determine compliance.

THIRD QUARTER 2019 RECEIVING WATER SURVEYS

The receiving water monitoring program required by the Permit includes surveys of Bell Creek, Dayton Canyon Creek, and Arroyo Simi. Observations are made only during discharge from Outfalls 002, 008, and 009, respectively, and at most monthly during periods of multiple flow events. During Third Quarter 2019, Outfalls 002, 008, and 009 did not discharge, thus, no receiving water surveys were conducted.

THIRD QUARTER 2019 SUMMARY OF EXCEEDANCES AND/OR NON-COMPLIANCE

No surface water discharges occurred from the Santa Susana Site during Third Quarter 2019. As such, there are no onsite compliance issues to report for this period. Additionally, in the quarterly surface water sample collected at Arroyo Simi sampling location (RSW-002, Frontier Park) in Simi Valley, no constituents exceeded receiving water limits.

THIRD QUARTER 2019 SANTA SUSANA SITE SWPPP/BMP ACTIVITIES

Boeing implemented significant BMP activities in compliance with the Site-Wide SWPPP (Haley & Aldrich, 2019) to assist in improving stormwater quality and compliance at the Santa Susana Site. Table II summarizes typical BMP-related activities that occur at outfalls every quarter.



TABLE II: Routine Quarterly Outfall BMP Activities

DOAD A salutate -						Out	falls					***************************************
BMP Activities	001	002	003	004	005	006	007	008	009	010	011	018
Conducted erosion, sediment control, and drainage stabilization inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation.	Х	X	x	X	x	x	x	х	x	X	х	х
Inspected the flume for sediment/debris.	х	х	Х	х	N/A	Х	N/A	х	х	х	N/A	Х
Inspected the weir for sediment/debris.	N/A	N/A	N/A	N/A	х	N/A						
Cleaned the sample box of sediment and debris, checked for the presence of animals, and performed weed abatement as needed.	x	x	x	x	x	х	x	x	N/A	x	x	x
Checked the flow meter control box for the presence of debris and/or animals.	х	х	х	х	N/A	x	N/A	х	х	х	×	х
Cleaned the outfall area of sediment and debris and performed weed abatement as needed.	x	×	х	x	х	x	х	х	x	х	х	х
Reset the flow meter and replaced the tape monthly.	х	х	х	x	N/A	x	N/A	х	x	х	х	х
Conducted maintenance inspections of the stormwater conveyance system.	N/A	N/A	х	х	х	х	х	N/A	N/A	x	х	х
Conducted maintenance inspections of the stormwater retention system.	N/A	N/A	х	х	х	х	х	N/A	N/A	х	х	х
Conducted maintenance inspections of the flow-through structure.	N/A	N/A	×	х	N/A	x	N/A	N/A	N/A	х	х	N/A

Notes:

X = BMP activity is applicable to the outfall and was completed in Third Quarter 2019.

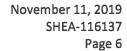
N/A = BMP activity is not applicable to the outfall because the outfall does not have a flume, sample box, flow meter, retention system or flow-through structure or is not part of the stormwater conveyance system.



Table III summarizes the additional activities completed during the Third Quarter 2019 by outfall or BMP location.

TABLE III: Additional Third Quarter 2019 BMP Activities

Outfall or BMP Location	BMP Activities During Third Quarter 2019
004	Removed broken limbs and branches from media bed. Performed weed abatement in the media bed.
006	Removed broken limbs and branches from media bed. Performed weed abatement in the media bed.
007	Removed broken limbs and branches from media bed.
Perimeter Pond	Performed weed abatement around pumps, intake pipes, and access.
Outfall 018 Stormwater Treatment System	Performed weed abatement in and around compound.
Lower Parking Lot	Removed spent fiber rolls from the base of the slope to the Sedimentation Basin. Removed trash and debris.
Northern Drainage on Sage Ranch Park	Replaced damaged and spent fiber rolls. Removed sediment build-up behind check structures.
CM-1	Removed debris from in front of weir board. Performed weed abatement.
CM-2	Replaced silt fence material on weir board. Removed debris from in front of weir board. Performed weed abatement.
CM-3	Removed sediment build-up from drop inlet structure. Replaced silt fence material on weir board. Removed debris from in front of weir board. Performed weed abatement.
CM-4	Replaced damaged and spent fiber rolls. Replaced silt fence material on weir board. Removed debris from in front of weir board. Performed weed abatement.
CM-5	Removed debris from in front of weir board. Performed weed abatement.
CM-6	Replaced silt fence material on weir board. Removed debris from in front of weir board. Performed weed abatement.
CM-7	Performed weed abatement.
CM-8	Removed debris from in front of weir board. Performed weed abatement along access area.
CM-9	Replaced damaged and spent fiber rolls. Replaced silt fence material on weir board. Removed debris from in front of weir board. Performed weed abatement.
CM-10	Removed debris from in front of weir board. Performed weed abatement.
CM-11	Removed debris from in front of weir board. Performed weed abatement.
CM-12	Removed debris from in front of weir board. Performed weed abatement.





In addition to SWPPP-related activities, specific BMP projects included: Woolsey Wildfire Vegetation Restoration, NASA, DOE, Expert Panel, Northern Drainage, and Outfall 001/002 BMP Compliance Report. These are discussed in more detail below.

NASA-Related Activities

Demolition BMPs and stormwater activities covered by NASA's Construction SWPPP (dated May 16, 2017) for the Alfa and Bravo areas are inspected in accordance with the Construction General Permit (CGP). All demolition and soil disturbance activities were completed in 2018. During the Third Quarter 2019, NASA maintained fiber rolls as linear sediment controls, maintained silt fencing, and maintained hydroseeded areas within these sites where construction activities had been completed.

Demolition BMPs and stormwater control activities covered by NASA's Construction SWPPP (dated December 4, 2017) in the Coca Test Stand Area are inspected in accordance with the CGP. All demolition and soil disturbance activities in the Coca Test Stand Area were completed in Fourth Quarter 2018. During the Third Quarter 2019, NASA maintained fiber rolls as linear sediment controls and maintained sandbags.

Demolition BMPs and stormwater control activities covered by NASA's Construction SWPPP (dated September 20, 2018) for the LOX and Bravo Areas are inspected in accordance with the CGP. During the Third Quarter 2019, NASA completed demolition activities in these areas and maintained fiber rolls as linear sediment controls and maintained sandbags.

During the Third Quarter 2019, utility poles in Area II had a 12 foot radius cleared of vegetation and covered with weed blocking fabric and road base to limit mobilization of pollutants from nearby soils through erosion control.

DOE Related Activities

DOE reported no BMP-related activities during the Third Quarter 2019.

Expert Panel-Related Activities

The BMP activities discussed below were performed, commenced, or completed during the Third Quarter 2019 in coordination with the Expert Panel.

Culvert Modifications

Twelve culvert modifications (CMs) were constructed in 2009 at various locations at or along the main road adjacent to the Northern Drainage. The CMs were designed to treat stormwater from roads and/or the surrounding hillsides. The Third Quarter 2019 activities included:

- Conducted BMP inspections, including the culvert inlets and riprap check dams;
- Cleaned basins and weir boards of sediment and debris at all CMs, as applicable;
- Replaced silt fence material on weir board at CM-2, -3, -4, -6, and -9;
- Replaced damaged and spent fiber rolls at CM-4 and CM-9;
- Removed the accumulated sediment within the drop inlet structure at CM-3; and
- Performed weed abatement at all CMs.



NASA Expendable Launch Vehicle (ELV) Area BMPs

BMPs and drainage improvements were installed between June and October 2013 at the NASA ELV to improve the quality of stormwater from the ELV area. After being pumped from the cistern at the bottom of the swale to the ELV system, stormwater is gravity-driven through the tank system, starting with the settling tanks, then through the filter media tank, before discharging to a tributary that flows to Outfall 009. In the Second Quarter 2016, a sandbag berm was placed across the ELV asphalt swale to divert stormwater toward CM-1 for treatment instead of directly discharging to the Northern Drainage. A generator was installed at the ELV system during the Third Quarter 2019. The Third Quarter 2019 activities included BMP inspections.

Well 13 Road

Sandbag berms located near the culvert inlet and downgradient of the hydroseeded area were reinforced and increased in height during Fourth Quarter 2017. The Third Quarter 2019 activities included BMP inspections.

B-1 Area

The B-1 Area BMPs include:

- A sedimentation basin, constructed in 2012;
- A media filter, constructed in 2012; and
- An upper parking lot media filter, constructed in 2017.

The Third Quarter 2019 activities included continued BMP inspections and clearing the areas of sediment and debris.

Upper Parking Lot Media Filter

Construction of a media filter at the northeast corner of the upper parking lot was completed during the Second Quarter 2017. This BMP included a new media filter similar in style to the B-1 media filter and designed to treat runoff from parts of the parking lot as well as parts of the adjacent entrance road. The Third Quarter 2019 activities included BMP inspections and removed sediment and debris in and around the media bed.

Former Building 1436 Detention Bioswales

Two detention bioswales were constructed at the former Building 1436 following its removal in Third Quarter 2014. The graded surface was hydroseeded, and more than 2,900 native plantings were installed in December 2014. The bioswales were designed to capture, pretreat, and detain stormwater from the adjacent parking lot and from approximately 13.9 acres of drainage area east and upgradient prior to releasing the stormwater to the former Instrument and Equipment Laboratories (IEL) storm drain, where flow is diverted to the lower lot biofilter for treatment. The Third Quarter 2019 activities included BMP inspections and invasive plant removal adjacent to and within the bioswales.

Lower Lot Biofilter

The lower lot biofilter is a stormwater treatment BMP designed and built to capture, convey, and treat stormwater from the lower parking lot and former IEL watershed. The lower lot biofilter consists of a 30,000-gallon cistern, a stormwater conveyance line, a sedimentation basin, and a media biofilter.



The Third Quarter 2019 activities included inspections to verify that the sedimentation basin and biofilter were free of sediment and debris, checks of the cistern area and pump, and inspections of surrounding BMPs. No stormwater was pumped from the Cistern to the sedimentation basin during the Third Quarter 2019. The Third Quarter 2019 activities included weed abatement as needed.

Administration Area Inlet Filters

Four storm drain inlets were modified with either drop inlet filters or weighted wattles filled with media mixtures during the Second Quarter 2017. At the inlet closest to the lower lot, a storm drain filter sock was placed upstream of the inlet to increase solids settling. The Third Quarter 2019 activities included BMP inspections and removed accumulated sediment in the basin.

Former Shooting Range

Prior to the Third Quarter 2019, existing BMPs at the Former Shooting Range consisted of:

- Slope stabilization measures (i.e., vegetation planting areas),
- Riprap berms along the Northern Drainage,
- A culvert maintenance media filter,
- Fiber rolls,
- Sandbag berm,
- Silt fencing,
- Water bar across the trail,
- Three check structures on the Northern trail,
- Sandbags with fiber rolls,
- A check structure at the dissipater, and
- Hydroseeding.

The entire area continues to benefit from the growth of dense vegetation which shields lead shot from direct contact with or dislodging due to precipitation.

The Third Quarter 2019 activities included BMP inspections, removing/replacing damaged fiber roll, and removing sediment buildup behind check structures at the Sage Ranch Walking Trail. At the request of the Expert Panel, the Sage Ranch side of the Former Shooting Range was inspected to confirm that BMPs (i.e., fiber rolls, silt fence, etc.) control and/or treat from that side of the Former Shooting Range to the Northern Drainage.

Non-Industrial Sources Special Studies

Non-industrial sources special studies are intended to help identify source pollutants within various watersheds. Onsite and offsite samples were not collected during the Third Quarter 2019.

Northern Drainage BMPs

Boeing restored the Northern Drainage (Outfall 009) following cleanup activities performed under the Department of Toxic Substance Control oversight and in accordance with the requirements of the Regional Board's Cleanup and



Abatement Order No. R4-2007-0054 (Regional Water Quality Control Board, 2007). The restoration and mitigation activities proposed in the Northern Drainage Restoration, Mitigation, and Monitoring Plan (RMMP)¹ were implemented in 2012. In accordance with the RMMP, regular maintenance, monitoring, and reporting were implemented in the Northern Drainage from 2012 through the Third Quarter 2017 for the stream's plant biology and geomorphology. The successful restoration and mitigation of the Northern Drainage per the success criteria of the RMMP were documented in the fifth and final Annual Mitigation Monitoring Report (Haley & Aldrich, 2017). Based on the success of the project, Boeing requested that the Regional Board provide written notice stating that Boeing had complied with all terms of the Cleanup and Abatement Order and Boeing's obligations under the Order would therefore be terminated. Boeing will continue to inspect the Northern Drainage BMPs annually and maintain them on an as-needed basis. No RMMP-related inspections of Northern Drainage BMPs were performed during Third Quarter 2019.

Outfall 001/002 BMP Compliance Report Related Activities

Boeing and the Expert Panel will continue to monitor and evaluate the effectiveness of BMPs within the watersheds of Outfall 001 and Outfall 002. A discussion of next steps and recommendations for these watersheds are included 2019 Expert Panel Annual Report (Geosyntec and the Expert Panel, 2019).

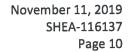
CONCLUSIONS

Boeing continues to implement, maintain, and monitor wide ranging control practices intended to improve water quality at stormwater discharge locations at the Santa Susana Site through methods designed to preserve the natural conditions in the watershed to the maximum extent feasible by implementing distributed, sustainable erosion control/restoration measures. The Expert Panel is reviewing the data collected this year and will make BMP and monitoring recommendations that will be communicated in the 2019 Annual Report.

FACILITY CONTACT

If there are any questions regarding this report or its enclosures, you may contact Mr. Jeffrey Wokurka of Boeing at (818) 466-8800.

¹ Available at: http://www.boeing.com/principles/environment/santa-susana/technical-reports.page





CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the 11th of November 2019 at The Boeing Company, Seal Beach, CA Site.

Sincerely

Kim O'Rdurke

Remediation Program Manager Environment, Health & Safety

Enclosures:

References

Figure 1 – Site Map with Stormwater Collection and Conveyance System and Site Features

Figure 2 - Arroyo Simi Receiving Water (RSW-002, Frontier Park) Sampling Location and Upstream Monitoring Point

Appendix A – Third Quarter 2019 Daily Rainfall Summary

Appendix B – Third Quarter 2019 Waste Shipment Summary Tables

Appendix C – Third Quarter 2019 Discharge Monitoring Data Summary Tables

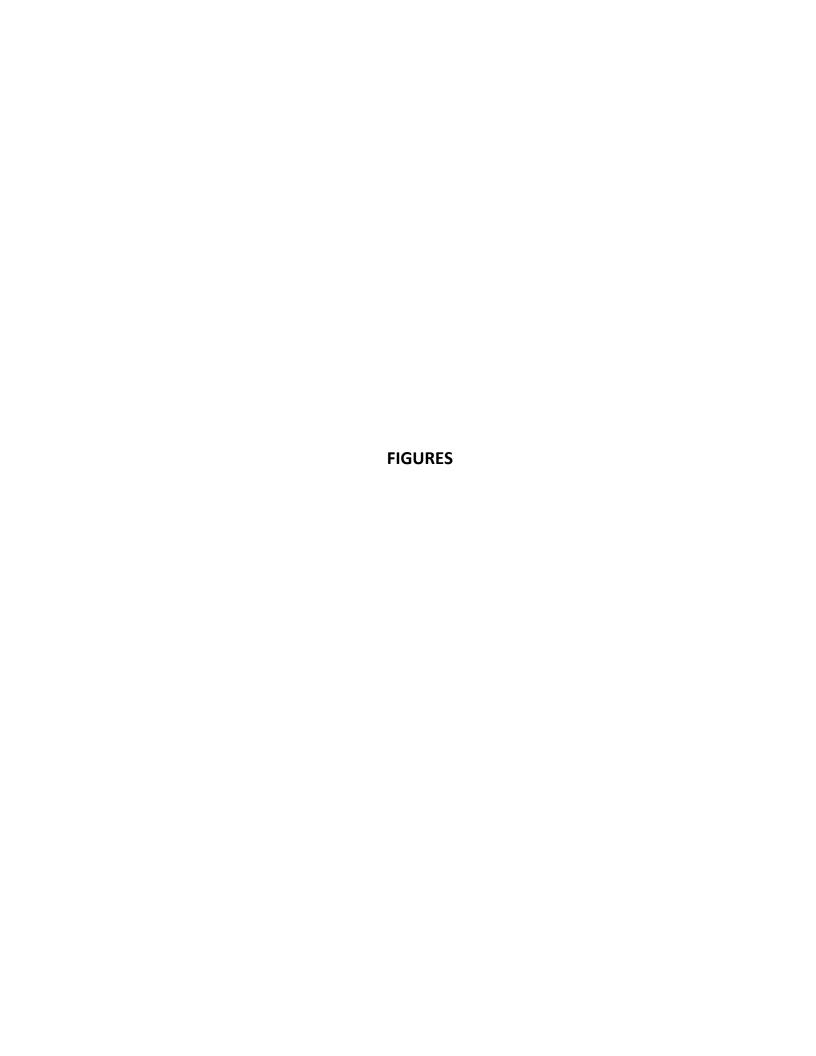
Appendix D – Third Quarter 2019 Analytical Laboratory Reports, Chain of Custody Forms, and Validation Reports

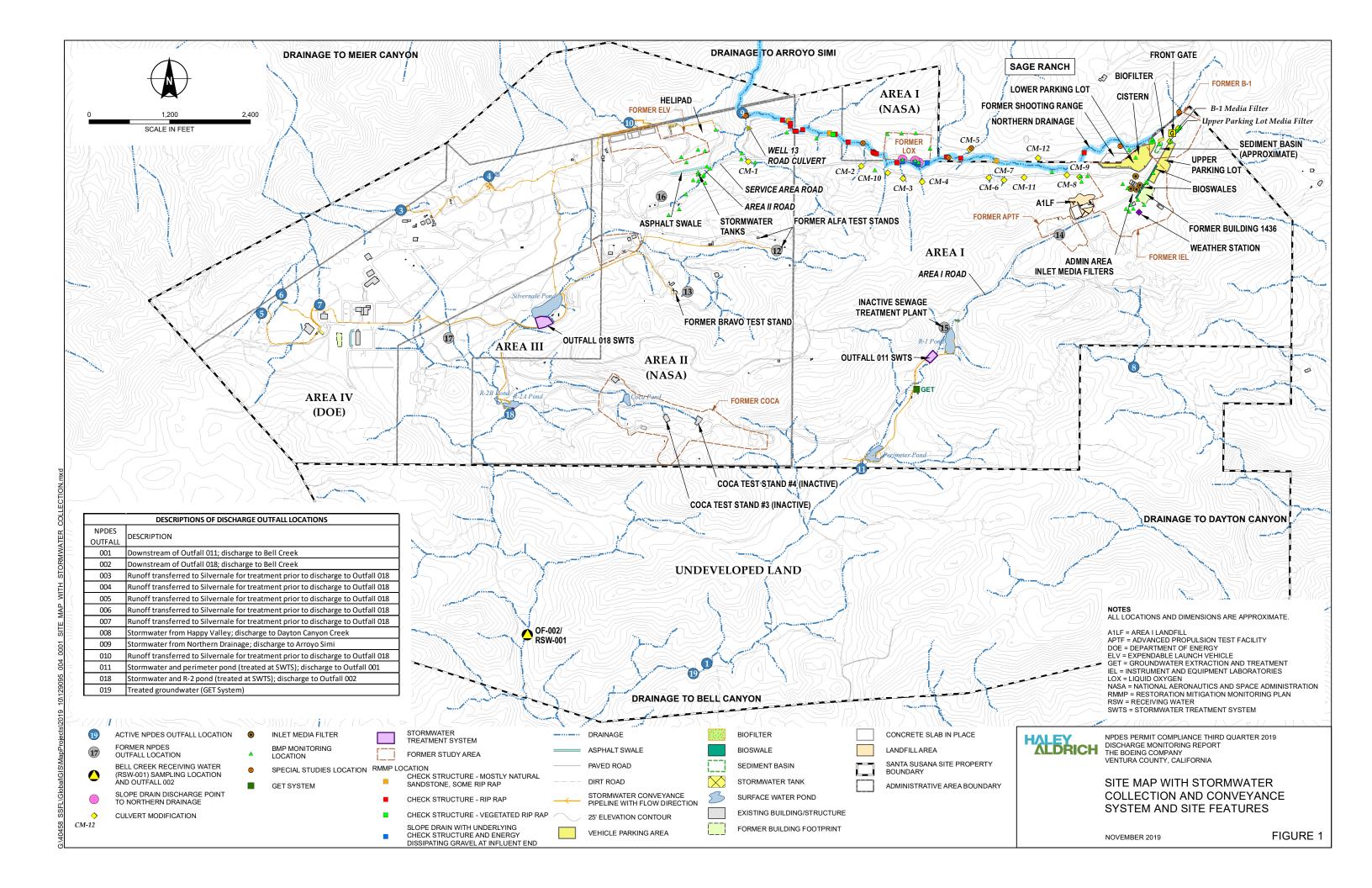
 c: Los Angeles Regional Water Quality Control Board; Attn: Ms. Cassandra Owens California Department of Toxic Substances Control; Attn: Mr. Mark Malinowski California State University Northridge Oviatt Library Simi Valley Public Library Los Angeles Public Library, Platt Branch

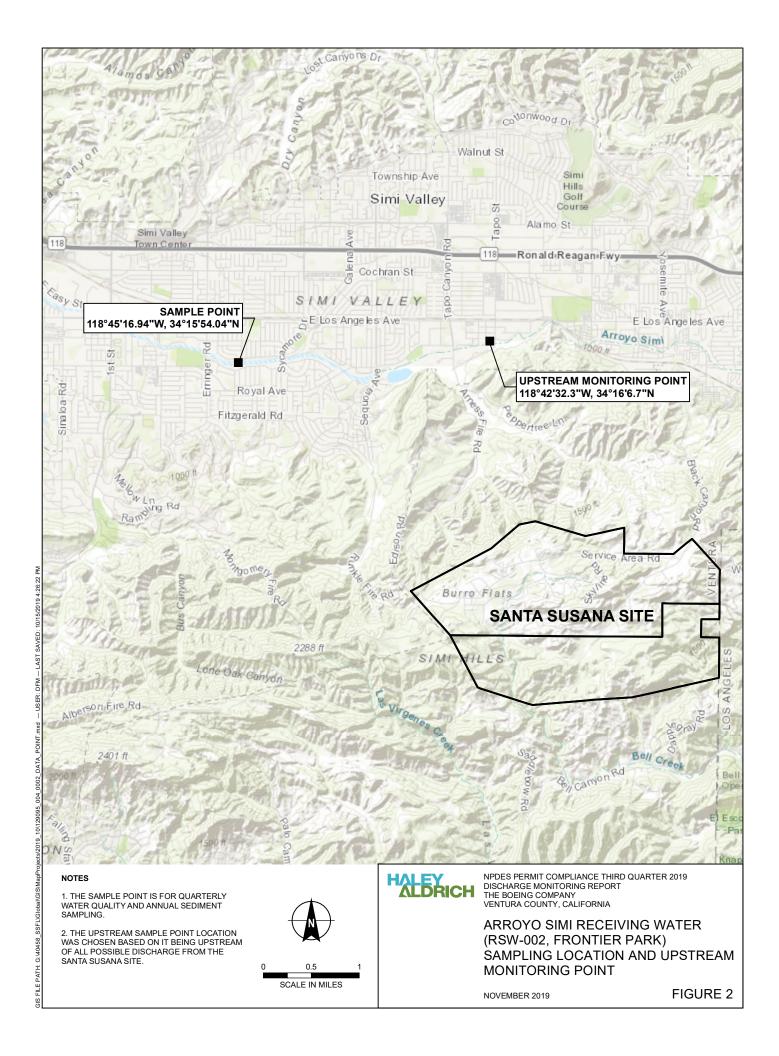


REFERENCES

- 1. The Boeing Company, 2017. Best Management Practice Compliance Report, Outfalls 001 and 002, The Boeing Company, Santa Susana Site, Ventura County. 16 June.
- 2. California Regional Water Quality Control Board, 2007. Cleanup and Abatement Order No. R4-2007-0054. 6 November.
- 3. California Regional Water Quality Control Board, Los Angeles Region, 2015. Waste Discharge Requirements for The Boeing Company, Santa Susana Field Laboratory (Order No. R4-2015-0033, NPDES No. CA0001309). 12 February.
- 4. Geosyntec and the Expert Panel, 2019. Santa Susana Field Laboratory Site-Wide Stormwater Annual Report, 2018/19 Reporting Year, Ventura County, California (NPDES No. CA0001309, CI No.6027). 31 October.
- Haley & Aldrich, Inc., 2017. Northern Drainage 2017 Annual Report, Clean Water Act Section 401 Water Quality Certification, File No. 12-001, Cleanup and Abatement Order No. R4-2007-0054, Streambed Alteration Agreement No. 1600-2003-5052-R5, Streambed Alteration Agreement No. 1600-2015-0079-R5, U.S. Army Corps of Engineers SPL-2012-00015, Santa Susana Field Laboratory, Ventura County, California. 13 December.
- 6. Haley & Aldrich, Inc., 2019. Stormwater Pollution and Prevention Plan (Version 6 for Compliance with 2015 NPDES Permit). 26 September.







APPENDIX A

Third Quarter 2019 Daily Rainfall Summary

APPENDIX A

TABLE OF CONTENTS

Table A – Daily Rainfall Summary

TABLE A DAILY RAINFALL SUMMARY

THE BOEING COMPANY NPDES PERMIT CA0001309

Station: AREA 1 Parameter: Rain Month/Year: July 2019

HOUR OF THE DAY, PACIFIC STANDARD TIME

										IOOK			I AOII I		NDARD						-	-				
_	HR-BEG	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	HR-END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	DAY																									Total
	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Α	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Υ	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Т	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Н	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Н	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE A DAILY RAINFALL SUMMARY

THE BOEING COMPANY NPDES PERMIT CA0001309

Station: AREA 1 Parameter: Rain

Month/Year: August 2019

HOUR OF THE DAY, PACIFIC STANDARD TIME

Г	UD DEO	•	- 1	•	•	- 1		•	- i					CSIA			4-	40	4-	40	40			20	00	
-	HR-BEG	0	1	2	3	4	5	6	/	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
-	HR-END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	T-4-1
-	DAY			2.22	2.22							0.00												2.22	2.22	Total
-	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
_	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Υ	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
_	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Н	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	20	0.00	0.00	0.00	0.00	0.00	0.00	d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Т	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
н	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ļ	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ļ	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ĺ	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ĺ	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Flags: d = Off-line part of hour, invalid hour due to calibration (August 20). For the off-line event, the rain gauge at Sage Ranch confirmed that no rainfall was recorded on August 20 during hour 06:00-07:00.

TABLE A DAILY RAINFALL SUMMARY

THE BOEING COMPANY NPDES PERMIT CA0001309

Station: AREA 1 Parameter: Rain

Month/Year: September 2019

HOUR OF THE DAY, PACIFIC STANDARD TIME

г															IDARD											
-	HR-BEG	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
_	HR-END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	DAY																									Total
	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Α	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Υ	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
_	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Т	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Н	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
М	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
н	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ļ	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
}	28	0.00	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
-	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX B

Third Quarter 2019 Waste Shipment Summary Tables

APPENDIX B

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Table B – Waste Shipment Summary Table, Liquid Waste Shipments

Table B – Waste Shipment Summary Table, Solid Waste Shipments

TABLE B WASTE SHIPMENT SUMMARY TABLE LIQUID WASTE SHIPMENTS

THIRD QUARTER 2019 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

TYPE OF WASTE	QTY.	UNITS	TRANSPORTER 1	TRANSPORTER 2	TRANSPORTER 3	DESTINATION
Non-RCRA Hazardous Waste	956	Р	Clean Harbors Environmtental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Hazardous Waste, Liquid	21,500	G	Clean Harbors Environmtental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste, Liquid	19,700	G	O.C. Vacuum, Inc.	n/a	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Non Hazardous, Non D.O.T Regulated	6,542	Р	Clean Harbors Environmtental Services, Inc. 42 Longwater Driver Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Corrosive Liquid, Basic, Inorganic, N.O.S.	130	Р	Clean Harbors Environmtental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Corrosive Liquid, Acidic, Inorganic, N.O.S.	5	Р	Clean Harbors Environmtental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Hazardous Waste, Liquid	323	Р	Clean Harbors Environmtental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Non-RCRA Hazardous Waste, Liquid	6	Р	Clean Harbors Environmtental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Hazardous Waste, Liquid	45,500	G	Ecology Control Industries, Inc 20846 Normandie Ave Torrance, CA 90502	n/a	n/a	US Ecology Vernon Inc. 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste, Liquid	17,800	G	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	US Ecology Vernon Inc. 5375 South Boyle Avenue Los Angeles, CA 90058
Non Hazardous Waste, Liquid	21,600	G	American Integrated Services, Inc.	n/a	n/a	Crosby & Overton, Inc. 1630 W. 17th Street Long Beach, CA 90813
Waste Toxic Liquids	5	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Basin Transportation LLC 130 Express Lane Mcalester, OK 74501	n/a	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Non-RCRA Hazardous Waste, Liquid	5	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Basin Transportation LLC 130 Express Lane Mcalester, OK 74501	n/a	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Hazardous Waste, Liquid	40,000	G	Southwest Processors, Inc. 4120 Bandini Blvd Vernon, CA 90058	n/a	n/a	Southwest Processors, Inc. 4120 Bandini Blvd Vernon, CA 90058

Notes:

G = Gallons

n/a = Not Applicable

P = Pounds

TABLE B WASTE SHIPMENT SUMMARY TABLE SOLID WASTE SHIPMENTS

THIRD QUARTER 2019 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

TYPE OF WASTE	QTY.	UNITS	TRANSPORTER 1	TRANSPORTER 2	TRANSPORTER 3	DESTINATION
Non Hazardous, Non D.O.T Regulated	20	Y	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Waste Management - Antelope Valley LF 1200 W. City Ranch Road Palmdale, CA 93551
Non Hazardous, Non D.O.T Regulated	117	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Corrosive Solid, Basic, Inorganic, N.O.S.,	34	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Hazardous Waste Solid	62	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Non-RCRA Hazardous Waste, Solids	19	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Waste Non D.O.T. Regulated	8	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Hazardous Waste, Solids	176	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Tri-State Motor Transit Co.	n/a	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Hazardous Waste, Solids	27	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Waste Non D.O.T. Regulated	16	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	n/a	Clean Harbors Environmenta+A3:G10l Services, Inc. 2247 South Highway 71 Kimball, NE 69145

Notes:

n/a = Not Applicable

P = Pounds

Y = Yards

APPENDIX C Third Quarter 2019 Discharge Monitoring Data Summary Tables

APPENDIX C

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Reporting Summary Notes

Arroyo Simi - Discharge Monitoring Data Summary Table

Not all of the following notes, abbreviations, symbols, or acronyms occur on every table:

- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) toxic equivalents (TEQs) for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as detected but not quantified (DNQ), as specified on page 26 of the NPDES permit (Water Board, 2015).
- 2. Temperature, total residual chlorine (TRC), dissolved oxygen (DO), and pH are measured in the field and are not validated.
- 3. pH and temperature are identified on the table as daily maximum discharge limits. The NPDES permit limit has an instantaneous minimum (6.5) and maximum (8.5) for pH and an instantaneous maximum of 86°F for temperature.
- 4. Exceedances are defined on page 6 of the NPDES permit as constituents in excess of daily maximum benchmark limits, daily maximum permit limits, or receiving water limits. Analytical concentrations or calculations to determine compliance to the NPDES permit are compared to the same number of significant figures as the daily maximum benchmark limits, daily maximum permit limits, or receiving water limits.
- 5. Priority pollutants, sampled once every five years, at Arroyo Simi Receiving Water sampling location (RSW-002, Frontier Park) were analyzed during the First Quarter 2018.
- 6. Dissolved metals are filtered by the laboratory and reported as "Metal, dissolved". Total metals are not filtered by the laboratory and reported as "Metal".
- 7. Abbreviations, symbols, and acronyms:

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition. Radiological results are presented as activity plus or minus total uncertainty.
%	Percent.
\$	Reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator.
	Based on validation of the data, a qualifier was not required.
-	No NPDES permit limit established for daily maximum.
<(value)	Analyte not detected at a concentration greater than or equal to the detection limit (DL), method detection limit (MDL), or laboratory reporting limit (RL); see laboratory report for specific detail.
>(value)	Greater than most probable number.
*	Result not validated.
**	Flow for each outfall is calculated over the 24-hour period when the outfall autosampler is operating to collect the composite sample. See definition of "Daily Discharge" on page A-2 of attachment A of the NPDES permit.
*1	Improper preservation of sample.

*2	The inductively coupled plasma (ICP)/matrix spike (MS) parts per billion (ppb) check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J).
*3	Initial and or continuing calibration recoveries were outside acceptable control limits.
*5	Blank spike/blank spike duplicate relative percent difference was outside the control limit.
*10	Value was estimated detect or estimated non-detect (J, UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as estimated maximum possible concentration (EMPC) values.
*11	No calibration was performed for this compound; result is reported as a tentatively identified compound (TIC).
* *	Unusual problems found with the data that have been described in Section II, "sample management", or Section III, "method analysis". The number following the asterisk (*) will indicated the validation report section where a description of the problem can be found.
ANR	Analysis not required; e.g., constituent or outfall was not required by the NPDES permit to be sampled and analyzed over the reporting period (annual, semiannual, etc.).
Avg	Average.
В	Laboratory method blank contamination.
ВА	Relative percent difference out of control.
BEF	Bioaccumulation equivalency factor.
BU	Analyzed out of holding time.
BV	Sample received after holding time expired.
С	Calibration percent relative standard deviation (%RSD) or percent difference (%D) were noncompliant.
CaCO3	Calcium carbonate
Chromium VI	Hexavalent chromium
Comp	Composite sample type.
C5	Calibration verification percent recovery (%R) was outside method control limits.
CEs/100 ml	Cell equivalents per 100 milliliters.
D	The analysis with this flag should not be used because another more technically sound analysis is available.
%D	Percent difference between the initial and continuing calibration relative response factors.
Deg C	Degrees Celsius.
Deg F	Degrees Fahrenheit.
DL	Detection limit.
DNQ	Detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less than the laboratory reporting limit).
Е	E in validation qualifier indicates that duplicates show poor agreement.
·	

EB	Equipment blank.
EMPC	Estimated maximum possible concentration.
F	The analyte was detected in an associated field blank (FB) or equipment blank (EB) as well as in the sample.
FB	Field blank.
F1	Matrix spike (MS) and/or matrix spike duplicate (MSD) recovery is outside acceptance limits.
ft/sec	Feet per second.
G	Gallons.
gpd	Gallons per day.
Н	Holding time was exceeded.
Hardness	Equivalent of calcium carbonate (CaCO3).
Нр	Hepta.
Нх	Hexa.
ICP	Interference check solution results were unsatisfactory.
J	Estimated value.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
J, DX	Estimated value, value < lowest standard method quantitation limit (MQL), but > than method detection limit (MDL).
К	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 milligrams per liter (mg/L); therefore, the reported result is an estimated value only.
L	Laboratory control sample percent recovery (%R) was outside control limits.
L1	Laboratory control standard (LCS)/laboratory control standard duplicate (LCSD), relative percent difference (RPD) was outside the control limit.
L2	The laboratory control sample percent recovery (%R) was below the method control limits.
LBS/DAY	Pounds per day.
LCS	Laboratory control standard.
LCSD	Laboratory control standard duplicate.
LQ	Laboratory control standard (LCS)/ laboratory control standard duplicate (LCSD) recovery above method control limits.
M1	Matrix spike (MS) and/or matrix spike duplicate (MSD) were above the acceptance limits due to sample matrix interference.
M2	The matrix spike (MS) and/or matrix spike duplicate (MSD) were below the acceptance limits due to sample matrix interference.
Max	Maximum.
	Analyte present in the method blank.
MB	Analyte present in the method blank.

MDL	Method detection limit.
Meas	Measure sample type.
MFL	Million fibers per liter.
MGD	Million gallons per day.
МНА	Due to high level of analyte in the sample, the matrix spike (MS)/matrix spike duplicate (MSD) calculation does not provide useful spike recovery information.
mg/L	Milligrams per liter.
mg/kg	Milligrams per kilogram.
ml/L	Milliliters per liter
ml/L/hr	Milliliters per liter per hour.
MPN/100 mL	Most probable number per 100 milliliters.
MQL	Method quantitation limit.
MS	Matrix spike.
MSD	Matrix spike duplicate.
mS/cm	MilliSiemens per centimeter
NA	Not applicable; no NPDES permit limit established for the constituent and/or outfall or analyte not required per receiving water monitoring requirements.
ND	Analyte not detected.
NM	Not measured or determined or minimum detectable activities (MDAs) are not calculated as there is no statistical method for combining MDAs.
NPDES	National Pollutant Discharge Elimination System.
NR	Not reported by laboratory by the deadline of this report.
NTU	Nephelometric turbidity unit.
OCDD	Octa CDD.
OCDF	Octa CDF.
Р	Pounds.
ppb	Parts per billion.
pCi/L	PicoCuries per liter.
Pe	Penta.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio; the measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
Q	Matrix spike (MS) recovery outside of control limits.
Q1	Matrix spike (MS)/matrix spike duplicate (MSD) relative percent difference (RPD) was outside the control limit.
R	As a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified.
(R)	Percent recovery (%R) for calibration not within control limits.
RL	Laboratory reporting limit.

RL-1	Reporting limit raised due to sample matrix effects.			
RPD	Relative percent difference.			
%R	Percent recovery.			
%RSD	Percent relative standard deviation.			
% Normal/Alive	Percent normal and alive.			
% Survival	Percent survival.			
S	Surrogate recovery was outside control limits.			
s.u.	Standard unit.			
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin.			
TCDF	2,3,7,8-tetrachlorodibenzo-p-furan.			
TEQ	Toxic equivalent.			
TIC	Tentatively identified compound			
TIE	Toxicity identification evaluation			
TOC	Total organic carbon			
Т	Presumed contamination, as indicated by a detect in the trip blank.			
U	Result not detected.			
μg/L	Micrograms per liter.			
μg/g	Micrograms per gram.			
μg/kg	Micrograms per kilogram.			
µmhos/cm	Micromhos per centimeter.			
UJ	Result not detected at the estimated reporting limit.			
WHO TEF	World Health Organization toxic equivalency factor.			
w/out	Without.			
۸	Analysis not completed due to hold time exceedance or insufficient sample volume.			
#	Per Order No. R4-2015-0033, page 16, Footnote 1. The effluent limitations for total suspended solids and settleable solids are not applicable for discharges during wet weather. During wet weather flow, a discharge event is greater than 0.1 inch of rainfall in a 24-hour period. No more than one sample per week need be obtained during extended periods of rainfall or the discharge of collected stormwater. A storm event must be preceded by at least 72 hours of dry weather.			
(1)	Based on the NPDES permit, table E-3a footnote 2, receiving water samples for pH, hardness, and priority pollutants must be collected on the same day as effluent samples.			
(2)	Additional sample, not required by the NPDES permit.			
(4.0)3.1/-	Represents (dry weather limit) wet weather limit / monthly average limit.			
(3)	Secondary maximum contaminant level.			

(4)	The drinking water maximum contaminant level of 3.00E-05 µg/L is for the dioxin congener 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). TCDD Toxic Equivalent (TEQ) without detected but not quantified (DNQ) values is the sum of the products of the detected dioxin congener concentration multiplied by that congener's toxic Equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). There are 17 dioxin congeners.
(a)	Based on Order No. R4-2015-0033, page 17, footnote 7, sampling event is a dry discharge and the NPDES Permit Limit for cadmium is 4.0 ug/L and 3.93 lbs/day at OF001,002,011,018 and 0.24 lbs/day at OF008.
(b)	Based on Order No. R4-2015-0033, page 17, footnote 7, sampling event is a wet discharge and the NPDES Permit Limit for cadmium is 3.1 ug/L and 4.91 lbs/day at OF001,002,011,018 and 3.05 lbs/day at OF008.
(c)	Based on Order No. R4-2015-0033, page 16, footnote 1, sampled during wet weather flow. The effluent limitations for total suspended solids and/or settleable solids are not applicable for discharges during wet weather.
(d)	Based on Order No. R4-2015-0033, page 16, footnote 1, sampled during dry weather flow. The effluent limitations for total suspended solids and/or settleable solids are applicable for discharges during dry weather.
(e)	Based on Order No. R4-2015-0033, page 17, footnote 8, sampling event is a dry discharge and the NPDES Permit Limit for selenium is 5 ug/L and 4.91 lbs/day.
(f)	Based on Order No. R4-2015-0033, page 17, footnote 8, sampling event is a wet discharge and the NPDES Permit Limit for selenium is 8.2 ug/L and 8.06 lbs/day.
(g)	The sampling frequency of this constituent is increased from once per year to once per discharge until four consecutive sample results demonstrate compliance per the NPDES permit. The corresponding dissolved metal also increased in sampling frequency to once per discharge.
(h)	Total Ammonia is reported in wet weight units milligrams per kilogram (mg/kg).
(i)	Total organic carbon (TOC) is reported in dry weight units. Permit asks for TOC units in % dry weight, but data is provided in dry unit milligrams per kilogram (mg/kg).
(j)	Analyte does not have a receiving water limit for Bell Creek Receiving Water (RSW-001, OF002).
(k)	Reserved.
(1)	When field staff arrived onsite to collect the composite sample they discovered that the autosampler had malfunctioned and had not collected "sips." Field staff repaired the autosampler, reset it, determined it was functioning properly, then returned the next day to collect the composite sample.
(m)	The composite sample was collected as a grab sample from the sample box due to insufficient flow.
(n)	The grab sample was delayed by an hour due to field error.
(o)	Unsafe conditions all day prevented access to the Outfall.
(p)	Reserved.
(p)	Minimum level not met due to laboratory error.

ARROYO SIMI DISCHARGE MONITORING DATA SUMMARY TABLE

THIRD QUARTER 2019 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

July 1 through September 30, 2019

				07/11/2019 08:00				
ANALYTE	UNITS	PERMIT LIMIT DAILY MAX	SAMPLE FREQUENCY	SAMPLE TYPE	RESULT	LABORATORY/ VALIDATION QUALIFIER		
POLLUTANTS WITH LIMITS								
4,4'-DDD	μg/L	0.0014	1/Quarter	Grab	ND < 0.00900	U*		
4,4'-DDE	μg/L	0.001	1/Quarter	Grab	ND < 0.0200	U*		
4,4'-DDT	μg/L	0.001	1/Quarter	Grab	ND < 0.0100	U*		
Aroclor 1016	μg/L	0.0003	1/Quarter	Grab	ND < 0.10	U*		
Aroclor 1221	μg/L	0.0003	1/Quarter	Grab	ND < 0.10	U*		
Aroclor 1232	μg/L	0.0003	1/Quarter	Grab	ND < 0.10	U*		
Aroclor 1242	μg/L	0.0003	1/Quarter	Grab	ND < 0.10	U*		
Aroclor 1248	μg/L	0.0003	1/Quarter	Grab	ND < 0.10	U*		
Aroclor 1254	μg/L	0.0003	1/Quarter	Grab	ND < 0.10	U*		
Aroclor 1260	μg/L	0.0003	1/Quarter	Grab	ND < 0.15	U*		
Chlordane ^(q)	μg/L	0.001	1/Quarter	Grab	ND < 0.232	U*		
Chlorpyrifos	μg/L	0.02	1/Quarter	Grab	ND < 0.0069	U*		
Diazinon	μg/L	0.16	1/Quarter	Grab	ND < 0.0052	U*		
Dieldrin	μg/L	0.0002	1/Quarter	Grab	ND < 0.00800	U*		
E. coli	MPN/100mL	235	1/Year	ANR	ANR	ANR		
pH (Field)	s.u.	6.5-8.5	1/Quarter	Grab	7.08	*		
Toxaphene	μg/L	0.0003	1/Quarter	Grab	ND < 0.355	U*		
POLLUTANTS WITHOUT LIMITS								
Hardness (as CaCO3)	mg/L	-	1/Quarter	Grab	610	*		
Priority Pollutants	NA	-	1/5 Years	ANR	ANR	ANR		
Temperature (Field)	Deg F	-	1/Quarter	Grab	69.3	*		
TCDD - Equivalents	μg/L	-	1/Year	ANR	ANR	ANR		
Total Suspended Solids	mg/L	-	1/Year	ANR	ANR	ANR		
Water Velocity	ft/sec	-	1/Quarter	Meas	0.0	*		

APPENDIX D

Third Quarter 2019 Analytical Laboratory Reports, Chain of Custody Forms, and Validation Reports

APPENDIX D

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Section No. 1	Arroyo Simi - 440-245602-1 - July 11, 2019, TestAmerica Analytical Report
2	Arroyo Simi - 440-245602-3 - July 11, 2019, TestAmerica Analytical Report



Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

Laboratory Job ID: 440-245602-1

Client Project/Site: Quarterly Arroyo Simi-Frontier Park

For:

Haley & Aldrich, Inc. 400 E Van Buren St. Suite 545 Phoenix, Arizona 85004

Attn: Katherine Miller

Usli Patel

Authorized for release by: 8/6/2019 1:47:05 PM

Urvashi Patel, Manager of Project Management (949)260-3269

urvashi.patel@testamericainc.com

..... Links

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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I certify under penalty of perjury that the information contained in this report and all attachments was produced in accordance with the indicated methods and laboratory standard operating procedures, except as noted, and are complete and accurate to the best of my knowledge and belief. Subcontract laboratory reports that are attached have been evaluated for completeness and quality control acceptability.

Urvashi Patel Manager of Project Management 8/6/2019 1:47:05 PM

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Sample Summary

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Asset ID

 440-245602-1
 Arroyo_Simi_20190711_Grab
 Water
 07/11/19 08:00
 07/11/19 15:30
 Asset ID

Job ID: 440-245602-1

3

5

0

8

4.0

11

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Case Narrative

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park

. rejection Quartony / mrejection reconstant

Job ID: 440-245602-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative 440-245602-1

Comments

No additional comments.

Receipt

The samples were received on 7/11/2019 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 5.0° C.

Metals

Method(s) 200.7 Rev 4.4: The method blank for preparation batch 440-557500 and analytical batch 440-557655 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Subcontract non-Sister

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work

Method 608_LL-PCB- Lancaster Labs: This method was subcontracted to Eurofins Lancaster Laboratories Env LLC. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method Weck- 525.2: This method was subcontracted to Weck Laboratories, Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report.

Job ID: 440-245602-1

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Client Sample Results

Client: Haley & Aldrich, Inc.

Job ID: 440-245602-1

Project/Site: Quarterly Arroyo Simi-Frontier Park

Client Sample ID: Arroyo_Simi_20190711_Grab Lab Sample ID: 440-245602-1

Date Collected: 07/11/19 08:00 Matrix: Water

Date Received: 07/11/19 15:30

Method: SM 2340B - Total Har	dness (as CaCO3) by ca	Iculation -	Total Recoverab	le			
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	610	0.33	0.17 mg/L			07/17/19 18:23	1

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Method Summary

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park

Method	Method Description	Protocol	Laboratory
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL IRV
Subcontract	608_LL-PCB- Lancaster Labs	None	SC0103
Subcontract	Weck- 525 2	None	Weck Lab

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300 TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022 Weck Lab = Weck Laboratories, Inc., 14859 East Clark Avenue, City of Industry, CA 917451396

Job ID: 440-245602-1

Lab Chronicle

Client: Haley & Aldrich, Inc.

Job ID: 440-245602-1

Project/Site: Quarterly Arroyo Simi-Frontier Park

Client Sample ID: Arroyo_Simi_20190711_Grab Lab Sample ID: 440-245602-1

Date Collected: 07/11/19 08:00 Matrix: Water

Date Received: 07/11/19 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Analysis	SM 2340B		1			557456	07/17/19 18:23	P1R	TAL IRV

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300 TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022 Weck Lab = Weck Laboratories, Inc., 14859 East Clark Avenue, City of Industry, CA 917451396

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QC Association Summary

Client: Haley & Aldrich, Inc.

Job ID: 440-245602-1

Project/Site: Quarterly Arroyo Simi-Frontier Park

Metals

Analysis Batch: 557456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-245602-1	Arroyo Simi 20190711 Grab	Total Recoverable	Water	SM 2340B	

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Definitions/Glossary

Client: Haley & Aldrich, Inc. Job ID: 440-245602-1

Project/Site: Quarterly Arroyo Simi-Frontier Park

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

,,,	,,
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

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Accreditation/Certification Summary

Client: Haley & Aldrich, Inc. Job ID: 440-245602-1

Project/Site: Quarterly Arroyo Simi-Frontier Park

Laboratory: Eurofins TestAmerica, Irvine

The accreditations/certifications listed below are applicable to this report.

	Authority	Program	EPA Region	Identification Number	Expiration Date
١	California	State Program	9	CA ELAP 2706	06-30-19 *

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Irvine



Certificate of Analysis

FINAL REPORT

Work Orders: 9G11112

Report Date: 7/26/2019

Received Date: 7/11/2019

Turnaround Time: Normal

Phones: (949) 261-1022

Fax: (949) 260-3297

P.O. #: 440-245602-1

Billing Code:

Attn: TestAmerica, Irvine

Project: 440-245602-1

Client: TestAmerica - Irvine CA

17461 Derian Ave, Suite 100 Irvine, CA 92614

Dear TestAmerica, Irvine,

Enclosed are the results of analyses for samples received 7/11/19 with the Chain-of-Custody document. The samples were received in good condition, at 4.1 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

XX

Sample Results

Sample:	Arroyo_Simi_20190711_Grab							Sampled: 07/11/19 8:0	00 by Client
	9G11112-01 (Water)								
Analyte			Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA	x 525.2M	Batch ID: W9G0682	Instr: GCMS13		Prepared:	07/12/19 10:15		Analyst: EFC	
Chlorpyrifo	os		ND	6.9	10	ng/l	1	07/24/19 21:10	
Diazinon			ND	5.2	10	ng/l	1	07/24/19 21:10	
Surrogate(s)									
1,3-Dimeti	hyl-2-nitrobenzene		96%		76-128	Conc: 4	81	07/24/19 21:10	
Triphenyl p	phosphate		112%		40-163	Conc: 5	60	07/24/19 21:10	

9G11112 Page 1 of 3

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Certificate of Analysis

Quality	Control	Doculto
Quality	COHILION	Results

/AVAI											
Semivolatile Organics - Low Level by Tande	em GC/MS/MS										
					Spike	Source		%REC		RPD	
Analyte	Result	MDL	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifie
Blank (W9G0682-BLK1)				Р	repared: 07/12/	19 Analyzed: (7/24/19				
Chlorpyrifos	ND	6.9	10	ng/l							
Diazinon	ND	5.2	10	ng/l							
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	491			ng/l	500		98	76-128			
Triphenyl phosphate	546			ng/l	500		109	40-163			
LCS (W9G0682-BS1)				Р	repared: 07/12/	19 Analyzed: (7/24/19				
Chlorpyrifos	57.2	6.9	10	ng/l	50.0		114	37-169			
Diazinon	45.0	5.2	10	ng/l	50.0		90	43-152			
Surrogate(s)											
,,	458			ng/l	500		92	76-128			
Triphenyl phosphate	606			ng/l	500		121	40-163			
Matrix Spike (W9G0682-MS1)	Source	: 9G11112-0	01	P	repared: 07/12/	19 Analyzed: (7/24/19				
Chlorpyrifos	71.7	6.9	10	ng/l	50.0	ND	143	37-168			
Diazinon		5.2	10	ng/l	50.0	ND	129	36-153			
Surrogate(s)											
·,· = ······ , · = ····· = ····	521			ng/l	500		104	76-128			
Triphenyl phosphate	572			ng/l	500		114	40-163			
Matrix Spike Dup (W9G0682-MSD1)	Source	: 9G11112-0	01	P	repared: 07/12/	19 Analyzed: (7/24/19				
Chlorpyrifos	68.6	6.9	10	ng/l	50.0	ND	137	37-168	4	30	
Diazinon	68.5	5.2	10	ng/l	50.0	ND	137	36-153	6	30	
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	476			ng/l	500		95	76-128			
Triphenyl phosphate	632			ng/l	500		126	40-163			

9G11112 Page 2 of 3 14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634



Definition

Certificate of Analysis

FINAL REPORT

Notes and Definitions

	Percent Recovery Dilution
Dil E	Dilution
dry S	Sample results reported on a dry weight basis
MDA N	Minimum Detectable Activity
MDL N	Method Detection Limit
T	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR) NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or
_	above the MDL. Not Reportable
RPD F	Relative Percent Difference
Source S	Sample that was matrix spiked or duplicated.
	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:







Regina Giancola Project Manager

> ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

9G11112 Page 3 of 3 14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

Lancaster Laboratories Environmental







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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Test America 17461 Derian Ave Suite #100 Irvine CA 92614

Report Date: August 01, 2019 15:00

Project: Boeing NPDES SSFL Outfalls

Account #: 41440 Group Number: 2053439 SDG: SSF15 PO Number: 440-171028-1

PO Number: 440-171028-1 State of Sample Origin: CA

Electronic Copy To Test America

Attn: Urvashi Patel

Kay Howe

Respectfully Submitted,

Kay Hower

(717) 556-7364

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/. Historical copies may be requested through your project manager.

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8/6/2019

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SAMPLE INFORMATION

Sample Collection	ELLE#
Date/Time	
07/11/2019 08:00	1100501
07/11/2019 08:00	1100502
07/11/2019 08:00	1100503
	<u>Date/Time</u> 07/11/2019 08:00 07/11/2019 08:00

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Project Name:

Lancaster Laboratories Environmental

Analysis Report

Sample Description: Arroyo_Simi_Grab(440-245602-1) Grab Water

Boeing NPDES SSFL Outfalls

Boeing NPDES SSFL Outfalls

Test America

ELLE Sample #: WW 1100501 **ELLE Group #:**

2053439

Matrix: Water

Submittal Date/Time: 07/13/2019 09:15 Collection Date/Time: 07/11/2019 08:00 SDG#: SSF15-01BKG

Method Limit of CAT Dilution Quantitation **Detection Limit* Analysis Name CAS Number** Result **Factor** No. **EPA 608** ug/l ug/l ug/l **PCBs** 06030 PCB-1016 12674-11-2 N.D. D1 0.10 0.50 06030 PCB-1221 11104-28-2 N.D. D1 0.10 0.50 06030 PCB-1232 11141-16-5 N.D. D1 0.10 0.50 06030 PCB-1242 53469-21-9 N.D. D1 0.10 0.50 06030 PCB-1248 12672-29-6 N.D. D1 0.10 0.50 06030 PCB-1254 11097-69-1 N.D. D1 0.10 0.50 06030 PCB-1260 11096-82-5 N.D. D1 0.15 0.50 1 06030 Total PCBs 1336-36-3 N.D. 0.10 0.50

Sample Comments

CA ELAP Lab Certification No. 2792

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06030	PCBs in Water by 608	EPA 608	1	191970012A	07/26/2019 07:08	Covenant Mutuku	1
11960	Method 608 PCB Water Ext.	EPA 608	1	191970012A	07/16/2019 16:30	Ryan J Dowdy	1

^{*=}This limit was used in the evaluation of the final result



Lancaster Laboratories Environmental

Analysis Report

Sample Description: Arroyo_Simi_Grab(440-245602-1MS) Grab Water

Boeing NPDES SSFL Outfalls

Boeing NPDES SSFL Outfalls

CAS Number

12674-11-2

11104-28-2

11141-16-5

53469-21-9

12672-29-6

11097-69-1

11096-82-5

1336-36-3

Test America

ELLE Sample #: WW 1100502

ELLE Group #:

2053439

Matrix: Water

0.50

0.50

Method

ug/l

0.10

0.10

0.10

0.10

0.10

0.10

0.15

0.10

Detection Limit*

Submittal Date/Time: Collection Date/Time: SDG#:

Analysis Name

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

Total PCBs

Project Name:

CAT

PCBs 06030

06030

06030

06030

06030

06030

06030

06030

No.

07/13/2019 09:15 07/11/2019 08:00 SSF15-01MS

EPA 608

Limit of Quantitation	Dilution Factor
ug/l	
0.50	1
0.50	1
0.50	1
0.50	1
0.50	1
0.50	1

1

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record						
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06030	PCBs in Water by 608	EPA 608	1	191970012A	07/26/2019 07:18	Covenant Mutuku	1
11960	Method 608 PCB Water Ext.	EPA 608	1	191970012A	07/16/2019 16:30	Ryan J Dowdy	1

Result

4.7 D2

N.D. D1

N.D. D1

N.D. D1

N.D. D1

N.D. D1

4.5 D1

9.2

ug/l

^{*=}This limit was used in the evaluation of the final result



Analysis Report

Test America

ELLE Sample #:

ELLE Group #:

WW 1100503 2053439

Matrix: Water

Sample Description: Arroyo_Simi_Grab(440-245602-1MSD) Grab Water

Boeing NPDES SSFL Outfalls

Project Name: Boeing NPDES SSFL Outfalls

Submittal Date/Time: 07/13/2019 09:15 Collection Date/Time: 07/11/2019 08:00 SDG#: SSF15-01MSD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
PCBs		EPA 608	ug/l	ug/l	ug/l	
06030	PCB-1016	12674-11-2	4.5 D2	0.10	0.50	1
06030	PCB-1221	11104-28-2	N.D. D1	0.10	0.50	1
06030	PCB-1232	11141-16-5	N.D. D1	0.10	0.50	1
06030	PCB-1242	53469-21-9	N.D. D1	0.10	0.50	1
06030	PCB-1248	12672-29-6	N.D. D1	0.10	0.50	1
06030	PCB-1254	11097-69-1	N.D. D1	0.10	0.50	1
06030	PCB-1260	11096-82-5	4.2 D1	0.15	0.50	1
06030	Total PCBs	1336-36-3	8.8	0.10	0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06030	PCBs in Water by 608	EPA 608	1	191970012A	07/26/2019 07:29	Covenant Mutuku	1
11960	Method 608 PCB Water Ext.	EPA 608	1	191970012A	07/16/2019 16:30	Ryan J Dowdy	1

^{*=}This limit was used in the evaluation of the final result

Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: Test America Group Number: 2053439 Reported: 08/01/2019 15:00

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: 191970012A	Sample num	ber(s): 1100501	-1100503
PCB-1016	N.D.	0.10	0.50
PCB-1221	N.D.	0.10	0.50
PCB-1232	N.D.	0.10	0.50
PCB-1242	N.D.	0.10	0.50
PCB-1248	N.D.	0.10	0.50
PCB-1254	N.D.	0.10	0.50
PCB-1260	N.D.	0.15	0.50
Total PCBs	N.D.	0.10	0.50

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 191970012A	Sample number(s): 1100501-	1100503						
PCB-1016	5.02	4.31			86		60-117		
PCB-1260	5.05	5.03			100		57-134		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 191970012A	Sample numbe	r(s): 1100501-	1100503 L	INSPK: 1100501						
PCB-1016	N.D.	5.02	4.70	5.02	4.52	94	90	60-117	4	30
PCB-1260	N.D.	5.05	4.51	5.05	4.24	89	84	57-134	6	30

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8/6/2019

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Lancaster Laboratories Environmental

Analysis Report

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Quality Control Summary

Client Name: Test America Group Number: 2053439 Reported: 08/01/2019 15:00

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCBs in Water by 608

Batch number: 191970012A

	Tetrachloro-m-xylene-D1	Decachlorobiphenyl-D1	Tetrachloro-m-xylene-D2	Decachlorobiphenyl-D2
1100501	77	78	77	78
1100502	88	81	86	83
1100503	83	82	83	81
Blank	69	78	69	78
LCS	65	74	65	74
MS	88	81	86	83
MSD	83	82	83	81
Limits:	18-115	10-127	18-115	10-127

Page 21 9f127

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^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Eurofins TestAmerica, Irvine

Phone: 949-261-1022 Fax: 949-260-3297

17461 Derian Ave Suite 100 Irvine, CA 92614-5817

41440 / 205 3439) 1/00501-03 Chain of Custody Record

🔅 eurofins

Environment Testing TestAmerica

Ver: 01/16/20198/6/2019

Client Information (Sub Contract Lab)	Sampler: Lab P					∕l: , Urvashi					C							COC No: 440-141041.1			
lient Contact:	Phone: E-M											State of Origin:						Page:			
hipping/Receiving	<u> </u>	urvas							California						Page 1 of 1 Job#:						
ompany: curofins Lancaster Laboratories Env LLC							Accreditations Required (See note): State Program - California 440-245602-1														
ddress:	Due Date Requeste	ed:			Analysis Requested						Preservation Codes:										
425 New Holland Pike, , , , , , , , , , , , , , , , , , ,	7/23/2019 TAT Requested (da	avst:		\dashv			\top	$\overline{}$	$\overline{}$	laiys	13 1	Cequ		;u —	\top	1	Silis		A - HCL B - NaOH	M - Hexane N - None	
ancaster	IAT HOGESTER	1907.									Ì						A COURT		C - Zn Acetate	O - AsNaO2	
tate, Zip:	1					o) Labs)/ 608_LL-PCB													D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
A, 17601 hone:	PO #:					뜮	ST			.			l						F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4	
17-656-2300(Tel)					6	09 /(:	8 PE											i i	H - Ascorbic Acid	T - TSP Dodecah	hydrate
mail:	WO #:			_ I	or No	(o)	09 /(-											<u>ب</u> ا	I - Ice J - DI Water	U - Acetone V - MCAA	
roject Name:	Project #:				χes.	or N ster	aster			<i>i</i>] [100		K - EDTA L - EDA	W - pH 4-5 Z - other (specify)	v۱
loeing NPDES SSFL outfalls	44009879				iš[res	anci									1	2000	₽		Tours laborally	.,
ite:	SSOW#:				Sample (Yes	δ 1.1	Ħ	!										o to	Other:		
						MS/MSD LL-PCB-	abs EST_									1	833	500 300			
		1	Sample	latrix Y=water,			18 P	<u>.</u>		i							2000	Number			
		Sample	' 'ype 's	i≃solid, waste/oil,	빌	Perform SUB (608_	Lancaster SUB (608_F	2										Total N			
ample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) вт=тіз	N	此	SUB	SU SU	<u>i</u>	- The second second				100 000	oste again	50. 250mg	1.0000.00	1	ᇍ	Special In	structions/Not	te:
	<i>></i> <	$\geq \leq$	Preservation	Code:	X)	\swarrow											2	4		Alian in	
rroyo_Simi_20190711_Grab (440-245602-1)	7/11/19	08:00 Pacific	v	Vater	Ц	X	X		Ш	$\perp \perp$						$\perp \perp$	100	2			
rroyo_Simi_20190711_Grab (440-245602-1MS)	7/11/19	08:00 Pacific	MS V	Vater	Ц	X	×	!		\dashv	\downarrow	_	_		┷	1	9	2			
uroyo_Simi_20190711_Grab (440-245602-1MSD)	7/11/19	08:00 Pacific	MSD V	Vater	Ц	X	×	$oldsymbol{ol}}}}}}}}}}}}}}}}}}}$			\perp	\perp		\perp		\sqcup		2			
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				1	<u></u>			طيبه اب	- antro		l_			la shin		forwar	رادا اردان المواد	eder c	chain-of-custody If t	he laboratory does	s not
ote: Since laboratory accreditations are subject to change, TestAmerica Laborato urrently maintain accreditation in the State of Origin listed above for analysis/tests	s/matrix being analyz	ed, the sample	es must be shipped b	back to the	Test	tAmerica	a labora	atory or	r otner	instruct	tions v	will be	provide	ed. An	y chang	ges to a	ccredit	tation	status should be br	ought to TestAmeri	rica
aboratories, Inc. attention immediately. If all requested accreditations are current	t to date, return the si	igned Chain of	Custody attesting to	said comp	plican	nce to Te	estAme	erica La	aborato	ories, In	nc.										
Possible Hazard Identification					٦,						ay b					es are			d longer than 1		
Inconfirmed					\perp			rn To (L			I By L	ab		<u> </u>	chiv	ve For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	able Rank: 2	2		5	Specia	il Insti	ructio	ns/Q(C Req	uirer	ments	:								
Empty Kit Relinquished by:		Date:			Tim	ie:					-		Me	ethod o	f Shipn	nent:					
telinquished by:	Date/Timer	1703	Comp	oany J		Rec	ceived	by:		-					Date	/Time:				Company	
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	Date/Time.					\(\zeta \)	<u> </u>			2	2	<u>=</u>	<u> </u>	>	7	43-1	<u>19</u>		9115	ELLE	<i>-</i>
Custody Seals Intact: Custody Seal No.:	IA					Coc	Je-Te	mperate	ure(s)	°C and	Other	r Rema	rks:	1	16	1					

Pragge 282 of f 1217



Sample Administration Receipt Documentation Log

Doc Log ID: 253962

Group Number(s): 2053439

Client: TESTAMERICA, IRVINE

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 07/13/2019 9:15

Number of Packages: 1 Number of Projects: 1

State/Province of Origin: <u>CA</u>

Arrival Condition Summary

Shipping Container Sealed: Yes Sample IDs on COC match Containers: Yes Custody Seal Present: Yes Sample Date/Times match COC: Yes

Custody Seal Intact: Yes VOA Vial Headspace ≥ 6mm: N/A

Samples Chilled: Yes Total Trip Blank Qty: 0

Paperwork Enclosed: Yes Air Quality Samples Present: No

Samples Intact: Yes

Missing Samples:

Extra Samples:

No

Discrepancy in Container Qty on COC:

No

, ,

Unpacked by Jessenia Colon Martinez (30856) at 12:40 on 07/13/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

 Cooler #
 Thermometer ID
 Corrected Temp
 Therm. Type
 Ice Type
 Ice Present?
 Ice Container
 Elevated Temp?

 1
 32170023
 1.4
 IR
 Wet
 Y
 Loose/Bag
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Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

		_	
BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
С	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	μg	microgram(s)
lb.	pound(s)	μL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	aqueous liquids, ppm is usually taken to	be equivalent to milli	kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weigh uivalent to one microliter per liter of gas.
ppb	parts per billion		
Dry weight	Results printed under this heading have	been adjusted for mo	pisture content. This increases the analyte weight

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

Measurement uncertainty values, as applicable, are available upon request.

as-received basis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Data Qualifiers

Qualifier	Definition
С	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

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1	Client Name/Address:		Project:				ANALYSIS REQUIRED							Field Readings Meter serial # そりろう ろん			
Haley &				Boeing-SSFL NPDES Permit 2015												Field Readings: (Include units)	
1	s Road Suite 220 , CA 92108-5860			Qua	rterly Arro	oyo Simi-Fro	ntier Park		1		4,4-DDT,					Time of Readings: 0745	
Test Amer	Test America Contact Urvashi Patel			Dry Weather					6		4.						
	17461 Derian Ave Suite #100 Itvine CA 92614 Tel 949-260-3269								(SM2340B)		88					pH	
											4,4 (E6					Temp 20. 7 @rf	
Cell 949-3	33-9055								dara	(2)	, 4,4-DDD, 4,4-DDE, 4 - PCBs only (E608)					Velocity 0 = O ft/sec	
TestAmenca's	services under this CoC shall be performed in accordance	ce with the T&Cs within Blanket Se . its subsidianes and affiliates, ar	ervice nd TestAmerica	Pi	roject Man	ager Katheri	ne Miller		8	(E525.2)	4.8					Total I Sac	
Laboratories In				52	0 289,860	6, 520.904.69	944 (cell)		as CaCO3, Recoverable	, E	es: Chlordane, Toxaphene + F					Field readings QC	
Sampler.					Field Mana	ger Mark Do	minick		l S	Diazinon	op de de					Checked by: Mico	
	Justin Quirk			97	8.234.503	3, 818.599.07	702 (cell)		asc	93.	1 5 E	oxa					
:									Sess	pyrif	를 를					Date/Time: 7-11-19/0745	
Sample Description	Sample I D	Sampling Date/Time	Sample Matrix	Container Type	# of Cont	Preservative	Bottle #	MS/MSD	P SE	Chlorpyrifos,	Pesticide Diefdrin,					Comments	
Description			ws	.260 mL Poly	3	HNO₃	100	Yes	X								
u _	Arroyo_Simi_20190711_Grab	7/11/2019/ 0000	ws	1L Glass Amber	6	HCI	275	Yes		Х	1					Extract within 24-Hours of sampling	
Arrayo Simi		1	ws ws	1L Glass Amber 1L Glass Amber	6 2	None HCI	285 275	Yes No	├	Н	×					Hold	
3	Arroyo_Simi_20190711_Grab_Extra	7/11/2019	ws	1L Glass Amber	2	None	285	No			Н					Hold	
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Relinquished	- Dat	e/Time		Company	····		Received Br	_		P 15	ate/Time	,				Turn-around time; (Check)	
	7	1.6/.12		1///	111	, , ,		m.	4		199	19	7//4/	11.1		24 Hour: 72 Hour: 10 DayX	
-m	1 pm +	11-19/1142 e/Time		Company	11 d	rida_	2	0.5	\sim		145	A	, ,	114	2_	48 Hour 5 Day: Normal	
Relinquished	Dan Dan	-7/. / c	,	Company		_	777	′ /	7	L	ate/Time		, l.	53C)	Sample Integrity: (Check)	
	1000	1/)///	- 1	<u> </u>	TAI	RV	L/k	1a (ر '	Me	<u>2008</u>	-7	111	19		Intact: On Ice	
Relinquished	d By Date	e/Time		Company.		7	Received By	7		C	ste/Time		•	•		Store samples for 6 months. Data Requirements. (Check)	
							`	,					T	12/11	20	No Level IV: All Level IV:X	
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1011	<i>i</i>	(7)															
	5.3 5.0	\mathscr{F}															









Client: Haley & Aldrich, Inc.

Job Number: 440-245602-1

Login Number: 245602 List Source: Eurofins TestAmerica, Irvine

List Number: 1

Creator: Soderblom, Tim

Creator: Soderbiom, 11m		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

Laboratory Job ID: 440-245602-3

Client Project/Site: Quarterly Arroyo Simi-Frontier Park

For:

Haley & Aldrich, Inc. 400 E Van Buren St. Suite 545 Phoenix, Arizona 85004

Attn: Katherine Miller

Ushi Patel

Authorized for release by: 8/15/2019 12:07:14 PM

Urvashi Patel, Manager of Project Management (949)260-3269

urvashi.patel@testamericainc.com

.....LINKS

Review your project results through

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Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Usli fatel

I certify under penalty of perjury that the information contained in this report and all attachments was produced in accordance with the indicated methods and laboratory standard operating procedures, except as noted, and are complete and accurate to the best of my knowledge and belief. Subcontract laboratory reports that are attached have been evaluated for completeness and quality control acceptability.

Urvashi Patel Manager of Project Management 8/15/2019 12:07:14 PM

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Sample Summary

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park

3

Job ID: 440-245602-3

Lab Sample ID Client Sample ID Matrix Collected Received Asset ID 440-245602-1 Arroyo_Simi_20190711_Grab 07/11/19 08:00 07/11/19 15:30 Water

Case Narrative

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park

Job ID: 440-245602-3

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative 440-245602-3

Comments

No additional comments.

Receipt

The samples were received on 7/11/2019 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 5.0° C.

Subcontract non-Sister

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work

Method 608_PEST_LL-Lancaster: This method was subcontracted to Eurofins Lancaster Laboratories Env LLC. The subcontract laboratory certification is different from that of the facility issuing the final report.

Job ID: 440-245602-3

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Method Summary

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park

Job ID: 440-245602-3

Method	Method Description	Protocol	Laboratory
Subcontract	608_PEST_LL-Lancaster	None	SC0103

Protocol References:

None = None

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Definitions/Glossary

Client: Haley & Aldrich, Inc. Job ID: 440-245602-3

Project/Site: Quarterly Arroyo Simi-Frontier Park

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MLMinimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.

Job ID: 440-245602-3

Project/Site: Quarterly Arroyo Simi-Frontier Park

Laboratory: Eurofins TestAmerica, Irvine

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-20

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Lancaster Laboratories Environmental







2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

REVISED

ANALYSIS REPORT

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Test America 17461 Derian Ave Suite #100 Irvine CA 92614

Report Date: August 15, 2019 13:18

Project: Boeing NPDES SSFL Outfalls

Account #: 41440 Group Number: 2053439 SDG: SSF15

PO Number: 440-171028-1 State of Sample Origin: CA

Electronic Copy To Test America Attn: Urvashi Patel

Respectfully Submitted,

Kay Hower

(717) 556-7364

A previous version of this report was generated on 08/01/2019 15:00.

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/. Historical copies may be requested through your project manager.

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Lancaster Laboratories Environmental







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REVISED

SAMPLE INFORMATION

Client Sample Description	Sample Collection	ELLE#
	Date/Time	
Arroyo_Simi_Grab(440-245602-1) Grab Water	07/11/2019 08:00	1100501
Arroyo_Simi_Grab(440-245602-1MS) Grab Water	07/11/2019 08:00	1100502
Arroyo_Simi_Grab(440-245602-1MSD) Grab Water	07/11/2019 08:00	1100503

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Project Name:

Lancaster Laboratories Environmental

Analysis Report

REVISED

Sample Description: Arroyo_Simi_Grab(440-245602-1) Grab Water

Boeing NPDES SSFL Outfalls

Boeing NPDES SSFL Outfalls

ELLE Sample #: WW 1100501 **ELLE Group #:** 2053439

Matrix: Water

Test America

Submittal Date/Time: Collection Date/Time: SDG#:

07/13/2019 09:15 07/11/2019 08:00 SSF15-01BKG

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
PCBs		EPA 608	ug/l	ug/l	ug/l	
06030	PCB-1016	12674-11-2	N.D. D1	0.10	0.50	1
06030	PCB-1221	11104-28-2	N.D. D1	0.10	0.50	1
06030	PCB-1232	11141-16-5	N.D. D1	0.10	0.50	1
06030	PCB-1242	53469-21-9	N.D. D1	0.10	0.50	1
06030	PCB-1248	12672-29-6	N.D. D1	0.10	0.50	1
06030	PCB-1254	11097-69-1	N.D. D1	0.10	0.50	1
06030	PCB-1260	11096-82-5	N.D. D1	0.15	0.50	1
06030	Total PCBs	1336-36-3	N.D.	0.10	0.50	1
Pestici	des	EPA 608.3 Dec. 2016	ug/l	ug/l	ug/l	
13634	Chlordane	57-74-9	N.D. D1	0.232	0.500	1
13634	p,p-DDD	72-54-8	N.D. D1	0.00900	0.0200	1
13634	p,p-DDE	72-55-9	N.D. D1	0.0200	0.0400	1
13634	p,p-DDT	50-29-3	N.D. D2	0.0100	0.0200	1
13634	Dieldrin	60-57-1	N.D. D2	0.00800	0.0200	1
13634	Toxaphene	8001-35-2	N.D. D1	0.355	1.00	1

Sample Comments

CA ELAP Lab Certification No. 2792

Due to a laboratory entry error the analysis for pesticides by EPA 608 was performed past hold time.

Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
06030	PCBs in Water by 608	EPA 608	1	191970012A	07/26/2019 07:08	Covenant Mutuku	1		
13634	OC Pest (608.3) 250mL	EPA 608.3 Dec. 2016	1	192180031A	08/09/2019 04:18	Andrea L Jones	1		
11960	Method 608 PCB Water Ext.	EPA 608	1	191970012A	07/16/2019 16:30	Ryan J Dowdy	1		
15037	Pesticide 608.3 Water Ext	FPA 608.3 Dec. 2016	1	192180031A	08/07/2019 09:00	David S Schrum	1		

^{*=}This limit was used in the evaluation of the final result



Project Name:

SDG#:

Submittal Date/Time:

Collection Date/Time:

Lancaster Laboratories Environmental

07/13/2019 09:15

07/11/2019 08:00

SSF15-01MS

Analysis Report

REVISED

Sample Description: Arroyo_Simi_Grab(440-245602-1MS) Grab Water

Boeing NPDES SSFL Outfalls

Boeing NPDES SSFL Outfalls

Test America ELLE Sample #:

ELLE Group #:

WW 1100502 2053439

Matrix: Water

CAT No.	Analysis Name	CAS N	umber _R	esult	Method Detection Limit*	Limit of Quantitation	Dilution Factor
PCBs		EPA 608	u	g/l	ug/l	ug/l	
06030	PCB-1016	12674-	11-2 4	.7 D2	0.10	0.50	1
06030	PCB-1221	11104-	28-2 N	I.D. D1	0.10	0.50	1
06030	PCB-1232	11141-	16-5 N	I.D. D1	0.10	0.50	1
06030	PCB-1242	53469-	21-9 N	I.D. D1	0.10	0.50	1
06030	PCB-1248	12672-	29-6 N	I.D. D1	0.10	0.50	1
06030	PCB-1254	11097-	69-1 N	I.D. D1	0.10	0.50	1
06030	PCB-1260	11096-	82-5 4	.5 D1	0.15	0.50	1
06030	Total PCBs	1336-3	6-3 9	.2	0.10	0.50	1
Pestici	des	EPA 608.3 Dec. 20	16 u	g/l	ug/l	ug/l	
13634	Chlordane	57-74-9	9 N	I.D. D1	0.232	0.500	1
13634	p,p-DDD	72-54-8	3 0	.195 D2	0.00900	0.0200	1
13634	p,p-DDE	72-55-9	9 0	.193 D2	0.0200	0.0400	1
13634	p,p-DDT	50-29-3	3 0	.193 D2	0.0100	0.0200	1
13634	Dieldrin	60-57-	1 0	.206 D2	0.00800	0.0200	1
13634	Toxaphene	8001-3	5-2 N	I.D. D1	0.355	1.00	1

Sample Comments

191970012A

192180031A

CA ELAP Lab Certification No. 2792

Analysis Name

PCBs in Water by 608

OC Pest (608.3) 250mL

Method 608 PCB Water Ext.

Pesticide 608.3 Water Ext

CAT

06030

13634

11960

15037

No.

Due to a laboratory entry error the analysis for pesticides by EPA 608 was performed past hold time.

EPA 608

EPA 608.3 Dec. 2016

Laboratory Sample Analysis Record										
Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor					
EPA 608	1	191970012A	07/26/2019 07:18	Covenant Mutuku	1					
EPA 608.3 Dec. 2016	1	192180031A	08/09/2019 04:31	Andrea L Jones	1					

07/16/2019 16:30

08/07/2019 09:00

Ryan J Dowdy

David S Schrum

^{*=}This limit was used in the evaluation of the final result

REVISED

Sample Description: Arroyo_Simi_Grab(440-245602-1MSD) Grab Water

Boeing NPDES SSFL Outfalls

Boeing NPDES SSFL Outfalls

Test America ELLE Sample #:

WW 1100503 **ELLE Group #:** 2053439

Matrix: Water

Project Name: Submittal Date/Time: Collection Date/Time:

SDG#:

07/13/2019 09:15 07/11/2019 08:00 SSF15-01MSD

Lancaster Laboratories

Environmental

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
PCBs		EPA 608	ug/l	ug/l	ug/l	
06030	PCB-1016	12674-11-2	4.5 D2	0.10	0.50	1
06030	PCB-1221	11104-28-2	N.D. D1	0.10	0.50	1
06030	PCB-1232	11141-16-5	N.D. D1	0.10	0.50	1
06030	PCB-1242	53469-21-9	N.D. D1	0.10	0.50	1
06030	PCB-1248	12672-29-6	N.D. D1	0.10	0.50	1
06030	PCB-1254	11097-69-1	N.D. D1	0.10	0.50	1
06030	PCB-1260	11096-82-5	4.2 D1	0.15	0.50	1
06030	Total PCBs	1336-36-3	8.8	0.10	0.50	1
Pestici	des	EPA 608.3 Dec. 2016	ug/l	ug/l	ug/l	
13634	Chlordane	57-74-9	N.D. D1	0.232	0.500	1
13634	p,p-DDD	72-54-8	0.194 D2	0.00900	0.0200	1
13634	p,p-DDE	72-55-9	0.193 D2	0.0200	0.0400	1
13634	p,p-DDT	50-29-3	0.195 D2	0.0100	0.0200	1
13634	Dieldrin	60-57-1	0.205 D2	0.00800	0.0200	1
13634	Toxaphene	8001-35-2	N.D. D1	0.355	1.00	1

Sample Comments

CA ELAP Lab Certification No. 2792

Due to a laboratory entry error the analysis for pesticides by EPA 608 was performed past hold time.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
06030	PCBs in Water by 608	EPA 608	1	191970012A	07/26/2019 07:29	Covenant Mutuku	1		
13634	OC Pest (608.3) 250mL	EPA 608.3 Dec. 2016	1	192180031A	08/09/2019 04:43	Andrea L Jones	1		
11960	Method 608 PCB Water Ext.	EPA 608	1	191970012A	07/16/2019 16:30	Ryan J Dowdy	1		
15037	Pesticide 608 3 Water Ext	EPA 608.3 Dec. 2016	1	192180031A	08/07/2019 09:00	David S Schrum	1		

^{*=}This limit was used in the evaluation of the final result



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

REVISED

Quality Control Summary

Client Name: Test America Group Number: 2053439

Reported: 08/15/2019 13:18

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Result ug/l	MDL** ug/l	LOQ ug/l
Sample num	ber(s): 1100501-	1100503
N.D.	0.10	0.50
N.D.	0.15	0.50
N.D.	0.10	0.50
Sample num	ber(s): 1100501-	1100503
N.D.	0.232	0.500
N.D.	0.00900	0.0200
N.D.	0.0200	0.0400
N.D.	0.0100	0.0200
N.D.	0.00800	0.0200
N.D.	0.355	1.00
	ug/I Sample numl N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	ug/l ug/l Sample number(s): 1100501- N.D. N.D. 0.10 N.D. 0.10 N.D. 0.10 N.D. 0.10 N.D. 0.15 N.D. 0.10 Sample number(s): 1100501- N.D. N.D. 0.00900 N.D. 0.0200 N.D. 0.0100 N.D. 0.0100 N.D. 0.0100 N.D. 0.00800

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 191970012A	Sample number(s): 1100501-1	1100503						
PCB-1016	5.02	4.31			86		60-117		
PCB-1260	5.05	5.03			100		57-134		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 192180031A	Sample number(s): 1100501-1	1100503						
p,p-DDD	0.204	0.169			83		31-141		
p,p-DDE	0.200	0.142			71		30-145		
p,p-DDT	0.204	0.161			79		25-160		
Dieldrin	0.204	0.181			89		36-146		

8

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



Analysis Report

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REVISED

Quality Control Summary

Client Name: Test America Group Number: 2053439 Reported: 08/15/2019 13:18

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 191970012A	Sample numbe	r(s): 1100501-	1100503 U	NSPK: 1100501						
PCB-1016	N.D.	5.02	4.70	5.02	4.52	94	90	60-117	4	30
PCB-1260	N.D.	5.05	4.51	5.05	4.24	89	84	57-134	6	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 192180031A	Sample numbe	r(s): 1100501-	1100503 U	NSPK: 1100501						
p,p-DDD	N.D.	0.204	0.195	0.204	0.194	95	95	31-141	0	39
p,p-DDE	N.D.	0.200	0.193	0.200	0.193	97	97	30-145	0	35
p,p-DDT	N.D.	0.204	0.193	0.204	0.195	95	95	25-160	1	30
Dieldrin	N.D.	0.204	0.206	0.204	0.205	101	101	36-146	1	49

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCBs in Water by 608

Batch number: 191970012A

	Tetrachloro-m-xylene-D1	Decachlorobiphenyl-D1	Tetrachloro-m-xylene-D2	Decachlorobiphenyl-D2
1100501	77	78	77	78
1100502	88	81	86	83
1100503	83	82	83	81
Blank	69	78	69	78
LCS	65	74	65	74
MS	88	81	86	83
MSD	83	82	83	81
Limits:	18-115	10-127	18-115	10-127

Analysis Name: OC Pest (608.3) 250mL

Batch number: 192180031A

	Tetrachloro-m-xylene-D1	Decachlorobiphenyl-D1	Tetrachloro-m-xylene-D2	Decachlorobiphenyl-D2
1100501	71	77	71	69
1100502	73	75	75	67
1100503	78	83	78	75
Blank	54	80	56	71
LCS	57	68	56	62
MS	73	75	75	67
MSD	78	83	78	75

^{*-} Outside of specification

Page 150f 122

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



Lancaster Laboratories Environmental

Analysis Report

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Quality Control Summary

Client Name: Test America Group Number: 2053439 Reported: 08/15/2019 13:18

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: OC Pest (608.3) 250mL

Batch number: 192180031A

Limits: 29-129 32-149 29-129 32-149

8/15/2019

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9

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Eurofins TestAmerica, Irvine

Phone: 949-261-1022 Fax: 949-260-3297

17461 Derian Ave Suite 100

Irvine, CA 92614-5817

41440 / 205 3439) 1/00501-03 Chain of Custody Record



🔅 eurofins

Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:			Lab PM Patel,		ashi						arrier T	racking	No(s):			440-141041.1	
Dient Contact:	Phone:			E-Mail:	hi ne	tol@4	Stat			State of Origin:				Page: Page 1 of 1				
Shipping/Receiving Company:	1					patel@testamericainc.com						Job#:						
Eurofins Lancaster Laboratories Env LLC								Califor									440-245602-1	
Address:	Due Date Requeste 7/23/2019	ed:				Analysis Requested							Preservation Co	des:				
2425 New Holland Pike, , Dity:	TAT Requested (da	ivs):		3					Allai	y 313	Requ		"	1 1			A - HCL B - NaOH	M - Hexane N - None
ancaster				200		<u>ا</u> لم											C - Zn Acetate	O - AsNaO2
itate, Zip:	1			200			님										D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
PA, 17601 Phone:	PO #:				1	녆	ST					1					F - MeOH G - Amchior	R - Na2S2O3 S - H2SO4
17-656-2300(Tel)				- troit	al .	09/	, P								į		H - Ascorbic Acid	T - TSP Dodecahydrate
mail:	WO #:				or No)	Labs)/ 608_LL-PCB	309 /										I - Ice J - DI Water	U - Acetone V - MCAA
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ample Identification - Client ID (Lab ID)	Sample Date	Sample Time		aste/oil, sue, A=Air) i	Perfo	SUB	SUB									120	Special li	nstructions/Note:
ample identification - Official Action (2)		\sim	Preservation (and the same of the same of the King	$\sqrt{\chi}$	1										\perp		
rroyo_Simi_20190711_Grab (440-245602-1)	7/11/19	08:00 Pacific	W	ater	Ť	X	Х									2		
royo Simi 20190711 Grab (440-245602-1MS)	7/11/19	Pacific 08:00	MS W	ater	+	X	Х						1			2		
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ote: Since laboratory accreditations are subject to change, TestAmerica Laborat rrrently maintain accreditation in the State of Origin listed above for analysis/tes aboratories, Inc. attention immediately. If all requested accreditations are currer	ts/matrix being analyz	ed, the sample	s must be shipped ba	ack to the T	「estAn	nerica I	aborat	tory or oth	her instr	uctions	es. This will be	s sampl provide	e shipn d. Any	nent is t change	orwarde es to acc	d under reditation	r chain-of-custody. If on status should be b	the laboratory does not crought to TestAmerica
ossible Hazard Identification					Sa	mple	Disp	osal (A fee	may	be as	esse	d if sa	mple	s are r	etaine	ed longer than 1	month)
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nconfirmed	Drimany Doliver	able Rank: 2	2		Sp	ecial	Instru	uctions	/QC R	equire	ements	3:						
	Filliary Deliver																	
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Sample Administration Receipt Documentation Log

Doc Log ID: 253962

Group Number(s): 2053439

Client: TESTAMERICA, IRVINE

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 07/13/2019 9:15

Number of Packages: 1 Number of Projects: 1

State/Province of Origin: <u>CA</u>

Arrival Condition Summary

Shipping Container Sealed: Yes Sample IDs on COC match Containers: Yes Custody Seal Present: Yes Sample Date/Times match COC: Yes

Custody Seal Intact: Yes VOA Vial Headspace ≥ 6mm: N/A

Samples Chilled: Yes Total Trip Blank Qty: 0

Paperwork Enclosed: Yes Air Quality Samples Present: No

Samples Intact: Yes

Missing Samples: No Extra Samples: No

Discrepancy in Container Qty on COC:

Unpacked by Jessenia Colon Martinez (30856) at 12:40 on 07/13/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

 Cooler #
 Thermometer ID
 Corrected Temp
 Therm. Type
 Ice Type
 Ice Present?
 Ice Container
 Elevated Temp?

 1
 32170023
 1.4
 IR
 Wet
 Y
 Loose/Bag
 N

No

ppb

basis

Dry weight

parts per billion

as-received basis.

Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
С	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	μg	microgram(s)
lb.	pound(s)	μL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm		oe equivalent to milli	kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weight uivalent to one microliter per liter of gas.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
С	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised
	due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Client Name						Project:			Π		ANALY	SIS RE	QUIRE)	Field Readings Meter serial # EDBPS
Haley & Aldrich 9040 Friars Road Suite 220				Boeing-SSFL NPDES Permit 2015 Quarterly Arroyo Simi-Frontier Park											Field Readings: (Include units) Time of Readings: 0745
San Diego, CA 92108-5860 Test America Contact Urvashi Patel 17461 Derian Ave Suite #100 Irvine CA 92614 Tel 949-260-3269 Cell 949-333-9055 TestAmenc's services under this CoC shall be porformed in accordance with the T&Cs within Blanket Service Agreement# 2015-18-TestAmerica by and between Haley & Aktrich, Inc., Its subsidianes and affiliates, and TestAmerica Laboratories Inc Sampler. JUSTIN QUITE				Dry Weather Project Manager Katherine Miller 520 289.8606, 520.904.6944 (cell)				rss as CaCO3, Recoverable (SM2340B)	Chlorpyrifos, Diazinon (E525.2)	Pesticides: Chlordane, 4.4-DDD, 4.4-DDE, 4.4-DDT, Dieldrin, Toxaphene + PCBs only (E808)				pH708pH unit TempZ_07_66rF Velocity0=_Oft/secft/sec	
														Field readings QC	
				Field Manager Mark Dominick 978.234.5033, 818.599.0702 (cell)										Checked by: 200741	
Sample Description	Sample i D	Sampling Date/Time	Sample Matrix	Container Type	# of Cont	Preservative	Bottle #	MS/MSD	Hardness	Chlorp	Pestick				Comments
	Arroyo_Simi_20190711_Grab	7/11/2019/ 10000	ws ws	260 mL Poly 1L Glass Amber 1L Glass Amber	3 6 6	HNO ₃ HCl	100 275 285	Yes Yes Yes	×	X	x				Extract within 24-Hours of sampling
Arrayo Simi	Arroyo_Simi_20190711_Grab_Extra	7/11/2019	ws ws	1L Glass Amber 1L Glass Amber 1L Glass Amber	2 2	HCI None	275 285	No No		н	H				Hold Hold
														440-245	602 Chain of Custody
Relinquished E	Donn 1	Time 11-19/1142		Company Haley	1/2	i'd,	Received B	b~	G		ate Top	19	1/14	91147	Turn-around time: (Check) 24 Hour: 72 Hour: 10 Day: X 48 Hour: 5 Day: Normal:
Relinquished E	Jon-	7)) / 9		530 Company.	TA	IRY	Received B	ga (ne	CUS ste/Time	م. 	<u> </u>	530 19 12 12 1	Sample Integrity: (Check) Intact: On Ice Store samples for 6 months. Data Requirements. (Check) No Level IV: X
294	5.3 5.0	2.3/2.0 D													







Client: Haley & Aldrich, Inc.

Job Number: 440-245602-3

List Source: Eurofins TestAmerica, Irvine

Login Number: 245602

Samples are received within Holding Time (excluding tests with immediate

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

List Number: 1

HTs)

MS/MSDs

<6mm (1/4").

Sample containers have legible labels.

Sample collection date/times are provided.

Appropriate sample containers are used.

Containers are not broken or leaking.

Sample bottles are completely filled. Sample Preservation Verified.

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

Creator: Soderblom, Tim		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.	True	
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	

True

True

True

True

True True

N/A

True

True

True

True

N/A

Eurofins TestAmerica, Irvine