



Soil Pre-Characterization Sampling Report For Polytechnic High School Improvements Project Poly Academy of Achievers and Leaders (PAAL) 1545 Long Beach Boulevard Long Beach, California

Prepared for:

Long Beach Unified School District
Facilities Development and Planning Branch
2425 Webster Avenue
Long Beach, California 90810

Prepared by:

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Verdantas Project No: 036.0000038939

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Business Department – Facilities Development and Planning Branch
2425 Webster Avenue
Long Beach, California 90810

**Subject: Soil Pre-Characterization Sampling Report
for Polytechnic High School Improvements Project
Poly Academy of Achievers and Leaders (PAAL)
1545 Long Beach Boulevard, Long Beach, California 90813**

Verdantas Inc. (Verdantas) is pleased to provide this report to the Long Beach Unified School District (referred to hereafter as “LBUSD” or the “District”) summarizing the field activities, results, conclusions, and recommendations of a soil investigation conducted at Poly Academy of Achievers and Leaders School (PAAL, referred to hereafter as the “Site”), located at 1545 Long Beach Boulevard in Long Beach, Los Angeles County, California (Figure 1). The soil investigation was conducted to support the LBUSD Facilities Development and Planning Branch’s Polytechnic High School Improvements Project.

As requested by the District, soil samples were collected to provide analytical results for soil pre-characterization purposes in support of the upcoming construction project at the Site. Our understanding is that the onsite buildings are scheduled for demolition, and the upper three feet of the Site will be subject to grading.

This assessment was performed in general conformance with the Department of Toxic Substances Control (DTSC) Information Advisory Clean Imported Fill Material (DTSC, 2001).

PRE-FIELD ACTIVITIES

HEALTH AND SAFETY PLAN

Verdantas prepared a project-specific Health and Safety Plan (HSP) summarizing the safety aspects of the work to be conducted at the Site. The HSP was prepared in compliance with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.120 and included a summary of the potential hazards at the Site, procedures to be followed in the event of an emergency, and a hospital route map. The HSP was retained by Verdantas personnel during all field activities, and on-site Verdantas personnel reviewed and signed the HSP prior to the start of work to acknowledge acceptance.

UTILITY CLEARANCE

Underground Service Alert (USA) of Southern California (DigAlert) was contacted at least two full business days prior to the start of fieldwork to mark the locations of underground utilities. Each proposed boring location was clearly marked in white paint prior to contacting DigAlert. USA Ticket Number B253090250-00B was obtained prior to the sampling event.

FIELD ACTIVITIES

SOIL SAMPLING

On November 11, 2025, pavement coring and drilling activities were conducted by Millenium Environmental Inc., a California licensed drilling contractor, and overseen by Verdantas personnel.

A total of six (6) soil borings, numbered PAAL-01 through PAAL-06, were advanced at the site. A portable coring machine was used to core asphalt/concrete pavement when present at the proposed sampling locations, and a hand auger was used to collect shallow soil samples.

A total of twelve (12) soil samples, two from each soil boring, were collected for laboratory analysis. Samples were collected at depths of 1.0 and 2.5 feet below ground surface (bgs) from borings PAAL-01 through PAAL-06. The soil samples were labeled with sample identification that included a unique identification based on the boring number and the sample depth in feet bgs (e.g., PAAL-01-1.0, PAAL-02-2.5, etc.). The soil samples were placed into laboratory-supplied glass jars with Teflon™-lined lids. The United States Environmental Protection Agency (USEPA) Method 5035 field preservative procedure was used to collect and preserve an aliquot of soil from three of the shallowest soil samples for analysis of volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) as gasoline range organics (GRO).

Non-dedicated equipment was decontaminated before and after each sample was collected using a three-stage wash of phosphate-free detergent and water, a rinse with potable water, and a final rinse with distilled water. The boreholes were backfilled with a combination of hydrated bentonite chips and soil cuttings, and the surface was restored to match the surrounding grade.

The soil samples were transported in ice-chilled coolers under standard chain-of-custody protocol to Jones Environmental, a California Environmental Laboratory Accreditation Program (ELAP)-certified laboratory in Santa Fe Springs, California, for analysis.

LABORATORY ANALYSIS

The shallowest soil sample from each boring was analyzed for the following constituents:

- ▶ Title 22 Metals by USEPA Methods 6010B/7471A; and
- ▶ TPH as diesel range organics (DRO) and oil range organics (ORO) by USEPA Method 8015M.

In addition, the shallowest soil sample from borings PAAL-02, PAAL-04, and PAAL-06 were also analyzed for the following constituents:

- ▶ VOCs and TPH as GRO by USEPA Method 5035/8260B;
- ▶ Organochlorine pesticides (OCPs) by USEPA Method 8081A; and
- ▶ Polychlorinated Biphenyls (PCBs) by USEPA Method 8082.

Analysis of the deeper soil samples was contingent on the results of the shallow soil samples collected. Based on the analytical results of the shallow samples, none of the deeper samples required analysis.



REGULATORY SCREENING CRITERIA AND HAZARDOUS WASTE CRITERIA

Soil analytical results were compared to one or more of the following regulatory health risk-based screening criteria:

- ▶ USEPA Regional Screening Levels (RSLs) for residential property (USEPA, November 2024);
- ▶ DTSC Office of Human and Ecological Risk (HERO) Note Number 3 Screening Levels (DTSC-SLs) for residential property (DTSC, June 2020, Revised April 2025);
- ▶ DTSC Southern California Background Concentration for Arsenic in Soil (DTSC, 2008);
- ▶ San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) for petroleum hydrocarbons (SFBRWQCB, 2025). DTSC and USEPA do not have screening levels for petroleum hydrocarbons that directly correlate to GRO, DRO, and ORO; therefore, the ESLs for petroleum hydrocarbons are often used for screening;
- ▶ LBUSD Import Criteria.

The analytical results were also compared to hazardous waste criteria. Hazardous waste criteria are defined in the following regulations:

- ▶ Resource Conservation and Recovery Act (RCRA) Hazardous Waste (Federal hazardous) – Chapter 40 of the Code of Federal Regulations (CFR) § 261;
- ▶ Non-Resource Conservation and Recovery Act (non-RCRA) Hazardous Waste (California hazardous) – California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3 § 66261.24.

Waste containing metals or a listed chemical is classified as non-RCRA hazardous when 1) the representative total content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) (e.g., 500 milligrams per kilogram (mg/kg) for arsenic and 1,000 mg/kg for lead), or 2) the representative soluble content equals or exceeds the respective STLC based on the standard Waste Extraction Test (e.g., 5 milligrams per liter (mg/L) for arsenic and lead). A waste may have the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value (e.g., 50 mg/kg for arsenic and lead), since the WET uses a 1:10 dilution ratio. Therefore, when a total chemical is detected at a concentration greater than or equal to ten times the respective STLC (assuming that 100 percent of the total chemical is soluble), a soluble WET analysis is required.

Waste is classified as RCRA hazardous when the representative soluble content equals or exceeds the Federal regulatory level based on the TCLP (e.g., 5 mg/L for arsenic and lead). A waste may have the potential of exceeding the TCLP when the waste's total metal content is greater than or equal to twenty times the respective TCLP value (e.g., 100 mg/kg for arsenic and lead), since the test uses a 1:20 dilution ratio. Therefore, when a total chemical is detected at a concentration greater than or equal to twenty times the respective STLC (assuming that 100 percent of the total chemical is soluble), a soluble TCLP analysis is required.

Waste that is classified as either California hazardous or Federal hazardous requires management as a hazardous waste and disposal at an appropriate facility.



ANALYTICAL RESULTS

Analytical results are summarized in Table 1 (Title 22 Metals), Table 2 (TPH and VOCs), and Table 3 (OCPs and PCBs). The laboratory report and chain-of-custody documentation are included in Appendix A. The specific constituents analyzed, and their associated laboratory reporting limits, can be found in the laboratory report.

Title 22 Metals

Title 22 metals were detected above laboratory reporting limits in all six samples analyzed (Table 1); however, the detected concentrations of Title 22 metals in each sample were below their respective hazardous waste criteria and residential regulatory screening and/or background criteria.

Total Petroleum Hydrocarbons

TPH was detected above laboratory reporting limits in each of the six soil samples analyzed (Table 2):

- ▶ DRO was detected in four of the soil samples at concentrations ranging from 17.7 milligrams per kilogram (mg/kg) in PAAL-02-1.0 to 71.5 mg/kg in PAAL-06-1.0, below the SFBWQCB residential screening criterion of 255 mg/kg and the LBUSD import criterion of 100 mg/kg for DRO.
- ▶ ORO was detected in all six soil samples at concentrations ranging from 18.3 mg/kg PAAL-03-1.0 to 552 mg/kg in PAAL-06-1.0. Although PAAL-06-1.0 exceeds the LBUSD import criterion of 500 mg/kg for ORO, the detected concentration is two orders of magnitude below the SFBWQCB residential screening criterion of 12,000 mg/kg.

GRO was not detected above the laboratory reporting limits in any of the three soil samples analyzed.

Volatile Organic Compounds

VOCs were not detected above laboratory reporting limits in any of the three samples analyzed (Table 2). The complete list of VOCs analyzed can be found in the laboratory analytical report included in Appendix A.

ORGANOCHLORINE PESTICIDES

OCPs were not detected above laboratory reporting limits in any of the three samples analyzed (Table 3). The complete list of OCPs analyzed can be found in the laboratory analytical report included in Appendix A.

POLYCHLORINATED BIPHENYLS

PCBs were not detected above laboratory reporting limits in any of the three samples analyzed (Table 3). The complete list of PCBs analyzed can be found in the laboratory analytical report included in Appendix A.



DATA VALIDATION

Verdantas performed Level 2a data validation of the laboratory report with analytical results for the soil samples collected, and the data were found to be valid and without qualifications. The data validation checklist for the laboratory report is included in Appendix B.

CONCLUSIONS AND RECOMMENDATIONS

Based on comparison of soil analytical results to USEPA residential RSLs, DTSC residential SLs/Southern California Arsenic Background, SFBRWQCB residential ESLs for TPH, LBUSD Import Criteria, and both state and federal hazardous waste criteria, Verdantas concludes that the soil at the Site is considered environmentally suitable and appropriate for on-site re-use, under the approval of the LBUSD Environmental Compliance Manager. Although the concentration of ORO in soil sample PAAL-06-1.0, 552 mg/kg, slightly exceeds the LBUSD import criterion of 500 mg/kg for ORO, the detected concentration is two orders of magnitude below the SFBRWQCB residential screening criterion of 12,000 mg/kg, indicating the soil does not pose an unacceptable human health exposure risk hazard for the proposed redevelopment. In addition, the soil originated on-site and therefore may not necessarily be appropriate for comparison against LBUSD Import Criteria, which are intended to prevent the import of contaminated media to LBUSD schools.

If the District elects to dispose of the soil offsite, the laboratory report included in Appendix A should be used to generate a non-hazardous waste profile of the soil. Some landfills may require segregation of soil or additional analyses for acceptance and the contractor should verify acceptance criteria with the individual landfill prior to transport.

In general, observations should be made during the proposed soil disturbance for areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, tanks, stained soil, or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

CLOSING STATEMENT

If you have any questions regarding this report, please contact the undersigned at (949) 568-4144 or at the email address listed below.

Sincerely,

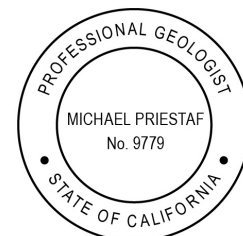
Verdantas Inc.



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ATTACHMENTS

References

Figure 1 – Site Location Map

Figure 2 – Soil Sample Location Map

Table 1 – Summary of Laboratory Results for Title 22 Metals in Soil

Table 2 – Summary of Laboratory Results for TPH and VOCs in Soil

Table 3 – Summary of Laboratory Results in for OCPs and PCBs in Soil

Appendix A – Laboratory Analytical Report and Chain of Custody Documentation

Appendix B – Data Validation Checklist

Distribution: Addressee

REFERENCES

California Environmental Protection Agency (CalEPA), Department of Toxic Substances Control (DTSC), 2001, *Information Advisory Clean Imported Fill Material*, Dated October 2001.

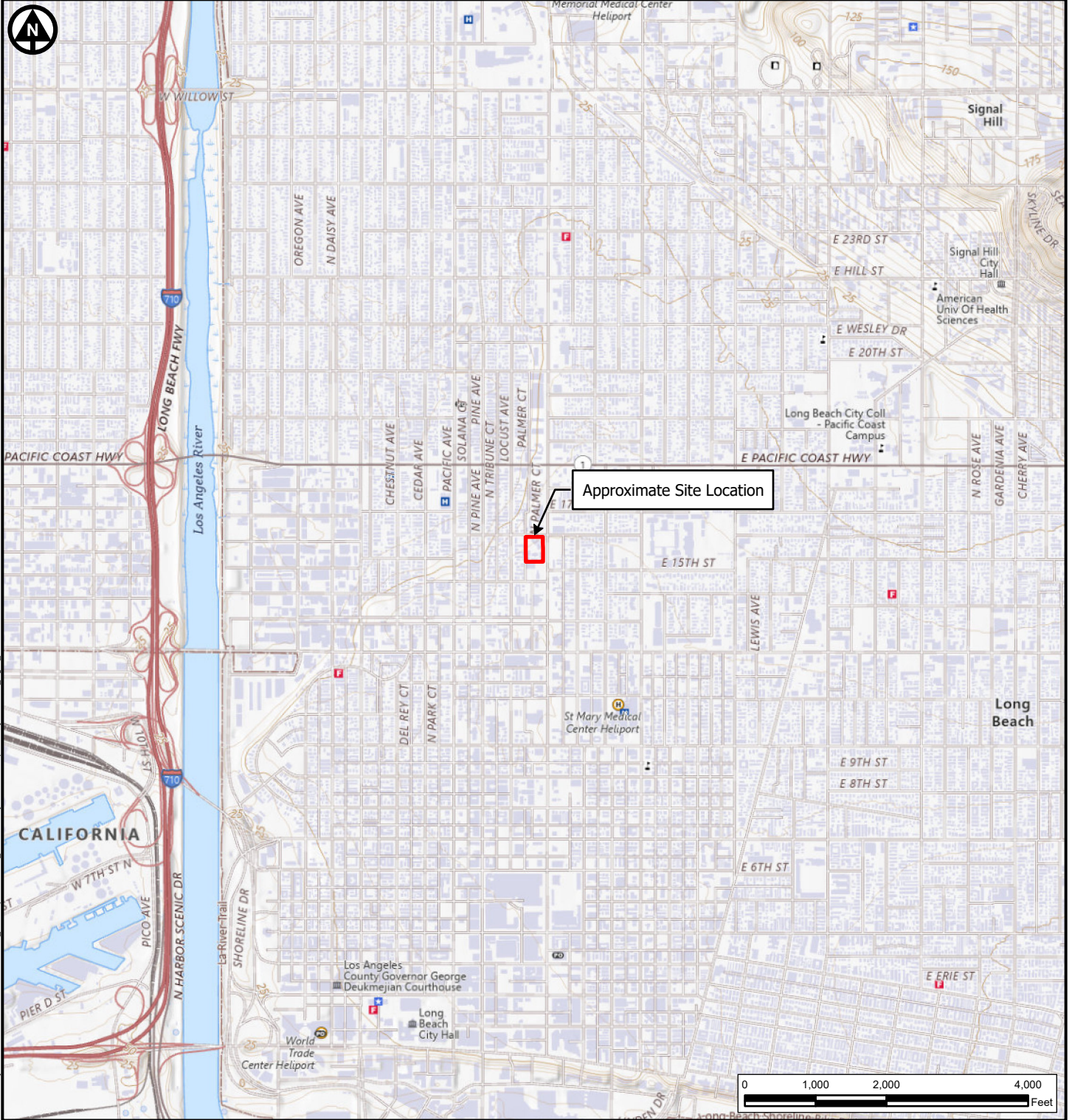
California Environmental Protection Agency (CalEPA), Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO), 2025 *Human Health Risk Assessment Note 3 – DTSC Modified Screening Levels (DTSC-SLs)*, <http://www.dtsc.ca.gov/assessingrisk/humanrisk2.cfm>, June 2020 – revised April 2025.

Department of Toxic Substances Control (DTSC), 2008, Determination of a Southern California Regional Background Arsenic Concentration in Soil, dated March 2008.

Long Beach Unified School District (LBUSD), 2020, Document 01 45 24, Environmental Import Materials Testing, dated Version V2020.1.

United States Environmental Protection Agency (USEPA), 2024, Regional Screening Levels (RSLs), Residential Soil Tables (TR-1E-06, THQ=1.0). November 2024.

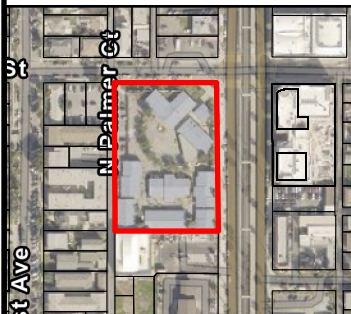
FIGURES



 Approximate Site Location

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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.
Topographic Map: USGS "The National Map" Web Service.
Quadrangle: Long Beach

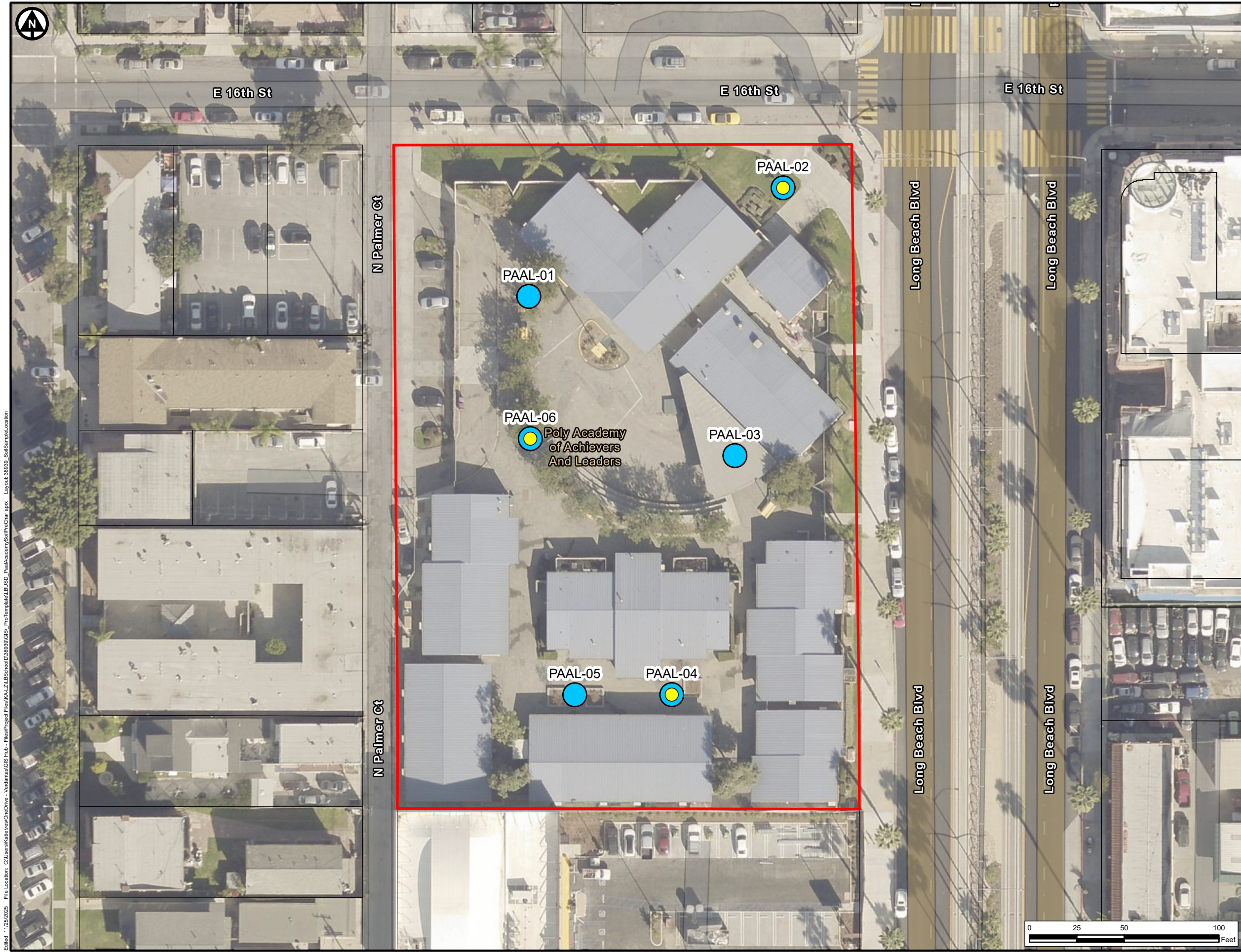
1545 Long Beach Boulevard,
Long Beach, CA 90813




Site Location Map

Poly Academy of Achievers and Leaders

Project Number
38939
Date
11/2025
Author
kives
Scale
1 in = 2,000 ft
Figure

1



- Type
-  Approximate Boring Location, Soil Sample for DRO, ORO, and Title 22 Metals Analysis
 -  Approximate Boring Location, Soil Sample for VOC, OCP and PCB Analysis
 -  Approximate Extent of Proposed Soil Disturbance

Notes:
1. The aerial photo was acquired through ESRI image services. Aerial photography dated 2024.

bgs: Below Ground Surface
DRO = Diesel Range Organics
ORO = Oil Range Organics
OCPs = Organochlorine Pesticides
PCBs = Polychlorinated Biphenyls
VOCs = Volatile Organic Compounds

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1545 Long Beach Boulevard,
Long Beach, CA 90813

Soil Sample Location Map

Poly Academy of Achievers and Leaders

Project Number	38939
Date	11/2025
Author	kives
Scale	1 in = 50 ft
Figure	2

TABLES

TABLE 1
Summary of Laboratory Results for Title 22 Metals in Soil
Long Beach Unified School District Polytechnic High School Improvements Project

Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals by USEPA Method 6010B/7471A (mg/kg)																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Regulatory Guidance Screening Levels																			
USEPA RSL Residential			31	0.68	15,000	160	7.1	--	23	3,100	100	7.1	390	820	390	390	0.78	390	23,000
DTSC-SL Residential			--	0.032	--	16	7.1	--	--	--	80	0.67	--	820	--	--	--	--	--
DTSC SoCal Background			--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hazardous Waste Criteria																			
TTLC (mg/kg)			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
10X STLC (mg/kg)			150	50	1,000	7.5	10	50	800	250	50	2	3,500	200	10	50	70	240	2,500
20X TCLP (mg/kg)			--	100	2,000	--	20	100	--	--	100	4	--	--	20	--	--	--	--
STLC (mg/L)			15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250
TCLP (mg/L)			--	5	100	--	1	5	--	--	5	0.2	--	--	1	5	--	--	--
PAAL-01-1.0	1.0	11/11/2025	ND<5.0	5.2	118	ND<0.5	ND<0.5	21.6	7.6	20.9	20.6	0.049	ND<0.5	14.7	ND<5.0	ND<0.5	ND<5.0	40.4	66.6
PAAL-02-1.0	1.0	11/11/2025	ND<5.0	5.8	132	ND<0.5	ND<0.5	21.3	8.0	22.4	20.7	0.047	ND<0.5	16.1	ND<5.0	ND<0.5	ND<5.0	39.5	70.8
PAAL-03-1.0	1.0	11/11/2025	ND<5.0	6.0	109	ND<0.5	ND<0.5	22.2	7.6	20.8	25.0	0.055	ND<0.5	16.2	ND<5.0	ND<0.5	ND<5.0	39.9	61.2
PAAL-04-1.0	1.0	11/11/2025	ND<5.0	5.9	105	ND<0.5	ND<0.5	20.8	9.2	19.1	16.1	0.050	ND<0.5	14.4	ND<5.0	ND<0.5	ND<5.0	39.6	55.4
PAAL-05-1.0	1.0	11/11/2025	ND<5.0	6.3	114	ND<0.5	ND<0.5	25.0	8.4	21.8	15.8	0.067	ND<0.5	16.9	ND<5.0	ND<0.5	ND<5.0	43.8	58.5
PAAL-06-1.0	1.0	11/11/2025	ND<5.0	6.9	96.0	ND<0.5	ND<0.5	20.6	8.7	19.6	16.3	0.046	ND<0.5	13.9	ND<5.0	ND<0.5	ND<5.0	33.5	59.0

Acronyms/Abbreviations:

- bgs = below ground surface.
- DTSC = Department of Toxic Substances Control.
- DTSC SoCal Background = Determination of a Southern California Regional background Arsenic Concentration in Soil (March 2008).
- DTSC-SL = DTSC Screening Level (SL), Office of Human and Ecological Risk (HERO) Note Number 3 (April 2025).
- RSL = USEPA Regional Screening Levels (November 2024).
- STLC = Soluble Threshold Limit Concentration.
- TCLP = Toxicity Characteristic Leaching Procedure.
- TTLC = Total Threshold Limit Concentration.
- USEPA = United States Environmental Protection Agency.
- mg/kg = milligrams per kilogram.
- nn = Analyte detected above the laboratory reporting limit at the concentration indicated.
- ND<nn = Analyte not detected at the laboratory reporting limit indicated.
- = Not analyzed or no value.

TABLE 2
Summary of Laboratory Results for TPH and VOCs in Soil
Long Beach Unified School District Polytechnic High School Improvements Project

Sample ID	Sample Depth (feet bgs)	Sample Date	TPH DRO/GRO/ORO by USEPA Method 8015M/8260B (mg/kg)			VOCs by USEPA Method 8260B (µg/kg)											
			DRO (C10-C28)	GRO (C6-C12)	ORO (C23-C40)	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	1,4-Dichlorobenzene	1,2-Dichloroethane	1,1-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Other VOCs ¹
Regulatory Guidance Screening Levels																	
USEPA RSL Residential			96	250	230,000	1,200	650	280,000	320	2,600	460	4,800	24,000	4,900,000	940	60	Varies
DTSC-SL Residential			97	--	2,400	330	6,500	--	--	--	--	83,000	590	1,100,000	--	10	Varies
SFBRWQCB ESL Residential for TPH			200	460	12,000	--	--	--	--	--	--	--	--	--	--	--	--
LBUSD Import Criteria for TPH			100	10	500	--	--	--	--	--	--	--	--	--	--	--	--
Hazardous Waste Criteria																	
TTLC (µg/kg)			--	--	--	--	--	--	--	--	--	--	--	--	2,040,000	--	Varies
10X STLC (µg/kg)			--	--	--	--	--	--	--	--	--	--	--	--	2,040,000	--	Varies
20X TCLP (µg/kg)			--	--	--	10,000	10,000	2,000,000	120,000	150,000	10,000	14,000	14,000	--	10,000	4,000	Varies
STLC (µg/L)			--	--	--	--	--	--	--	--	--	--	--	--	204	--	Varies
TCLP (µg/L)			--	--	--	500	500	100,000	6,000	7,500	500	700	700	--	500	200	Varies
PAAL-01-1.0	1.0	11/11/2025	ND<10.0	--	23.1	--	--	--	--	--	--	--	--	--	--	--	--
PAAL-02-1.0	1.0	11/11/2025	17.7	ND<0.20	80.4	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND
PAAL-03-1.0	1.0	11/11/2025	ND<10.0	--	18.3	--	--	--	--	--	--	--	--	--	--	--	--
PAAL-04-1.0	1.0	11/11/2025	31.7	ND<0.20	155	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND
PAAL-05-1.0	1.0	11/11/2025	45.1	--	234	--	--	--	--	--	--	--	--	--	--	--	--
PAAL-06-1.0	1.0	11/11/2025	71.5	ND<0.20	552	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND

- Notes:**
- 1. See laboratory report for a complete list of VOCs analyzed.
 - 2. DTSC SLs and USEPA RSLs for TPH are not directly comparable to TPH results. Therefore, SFBRWQCB ESLs for petroleum hydrocarbons are often used for screening.

Acronyms/Abbreviations:

- bgs = below ground surface.
- DRO = Diesel Range Organics.
- DTSC = Department of Toxic Substances Control.
- DTSC-SL = DTSC Screening Level for Residential Property, Office of Human and Ecological Risk (HERO) Note Number 3 (April 2025).
- ESL = SFBRWQCB Environmental Screening Level for Residential Shallow Soil Exposure (July 2025).
- GRO = Gasoline Range Organics.

ORO = Oil Range Organics.
RSL = USEPA Regional Screening Level for Residential Property (November 2024).
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board.
TPH = Total Petroleum Hydrocarbons.
USEPA = United States Environmental Protection Agency.
VOCs = Volatile Organic Compounds.
mg/kg = milligrams per kilogram.
µg/kg = micrograms per kilogram.
nn = Analyte detected above the laboratory reporting limit at the concentration indicated.
ND<nn = Analyte not detected at the laboratory reporting limit indicated.
-- = Not analyzed or no value.

TABLE 3
Summary of Laboratory Results for OCPs and PCBs in Soil
Long Beach Unified School District Polytechnic High School Improvements Project

Sample ID	Sample Depth (feet bgs)	Sample Date	OCPs by USEPA Method 8081A (µg/kg)												PCBs ² by USEPA Method 8082 (µg/kg)
			Aldrin	Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endrin	Heptachlor	Lindane	Methoxychlor	Toxaphene	Other OCPs ¹	
Regulatory Guidance Screening Levels															
USEPA RSL Residential			40	1,700	2,300	2,000	1,900	30	19,000	130	60	320,000	490	Varies	Varies
DTSC-SL Residential			40	1,700	1,900	2,000	1,900	30	19,000	130	570	320,000	450	Varies	Varies
Hazardous Waste Criteria															
TTL (µg/kg)			1,400	2,500	1,000	1,000	1,000	8,000	200	4,700	4,000	100,000	5,000	Varies	Varies
10X STL (µg/kg)			1,400	2,500	1,000	1,000	1,000	8,000	200	4,700	4,000	100,000	5,000	Varies	Varies
20X TCLP (µg/kg)			--	600	--	--	--	--	400	160	8,000	200,000	10,000	Varies	Varies
STL (µg/L)			140	250	100	100	100	800	20	470	400	10,000	500	Varies	Varies
TCLP (µg/L)			--	30	--	--	--	--	20	8	400	10,000	500	Varies	Varies
PAAL-01-1.0	1.0	11/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
PAAL-02-1.0	1.0	11/11/2025	ND<10.0	ND<20.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<20.0	ND<20.0	ND	ND
PAAL-03-1.0	1.0	11/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
PAAL-04-1.0	1.0	11/11/2025	ND<10.0	ND<20.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<20.0	ND<20.0	ND	ND
PAAL-05-1.0	1.0	11/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
PAAL-06-1.0	1.0	11/11/2025	ND<10.0	ND<20.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<20.0	ND<20.0	ND	ND

Notes:

1. See laboratory report for a complete list of OCPs analyzed.
2. See laboratory report for a complete list of PCBs analyzed.
3. Waste criteria for PCBs are regulated under TSCA.

Acronyms/Abbreviations:

- bgs = below ground surface.
- DTSC = Department of Toxic Substances Control.
- DTSC-SL = DTSC Screening Level for Residential Property, Office of Human and Ecological Risk (HERO) Note Number 3 (April 2025).
- ESL = RWQCB Environmental Screening Level for Residential Shallow Soil Exposure (July 2025).
- OCPs = Organochlorine Pesticides.
- PCBs = Polychlorinated Biphenyls.
- RSL = USEPA Regional Screening Level for Residential Property (November 2024).
- RWQCB = Regional Water Quality Control Board.
- STLC = Soluble Threshold Limit Concentration.
- TCLP = Toxicity Characteristic Leaching Procedure.
- TSCA = Toxic Substances Control Act.
- TTL = Total Threshold Limit Concentration.
- USEPA = United States Environmental Protection Agency.
- µg/kg = micrograms per kilogram.
- ND<nn = Analyte not detected at the laboratory reporting limit indicated.
- = Not analyzed or no value.

APPENDIX A

LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY DOCUMENTATION



714-449-9937
562-646-1611

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

19 November 2025

Jonathan Harrington
Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Re: Polytechnic High School Improvements Project

Enclosed are the results of analyses for samples received by the laboratory on 11/11/25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Colby Wakeman".

Colby Wakeman
Lab Director

Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan HarringtonReported
11/19/25 11:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PAAL-01-1.0	J254328-001	Soil	11/11/2025 07:40	11/11/2025 10:52
PAAL-02-1.0	J254328-003	Soil	11/11/2025 09:15	11/11/2025 10:52
PAAL-03-1.0	J254328-005	Soil	11/11/2025 09:00	11/11/2025 10:52
PAAL-04-1.0	J254328-007	Soil	11/11/2025 08:40	11/11/2025 10:52
PAAL-05-1.0	J254328-009	Soil	11/11/2025 08:18	11/11/2025 10:52
PAAL-06-1.0	J254328-011	Soil	11/11/2025 08:00	11/11/2025 10:52

Jones Environmental, Inc.

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

Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

DETECTIONS SUMMARY

Sample ID: PAAL-01-1.0

Laboratory ID: J254328-001

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic, As	5.2	5.0	mg/kg	EPA 6010	
Barium, Ba	118	0.5	mg/kg	EPA 6010	
Chromium, Cr	21.6	0.5	mg/kg	EPA 6010	
Cobalt, Co	7.6	0.5	mg/kg	EPA 6010	
Copper, Cu	20.9	0.5	mg/kg	EPA 6010	
Lead, Pb	20.6	0.5	mg/kg	EPA 6010	
Nickel, Ni	14.7	0.5	mg/kg	EPA 6010	
Vanadium, V	40.4	0.5	mg/kg	EPA 6010	
Zinc, Zn	66.6	0.5	mg/kg	EPA 6010	
Mercury, Hg	0.049	0.020	mg/kg	EPA 7471	
C23 - C40	23.1	10.0	mg/kg	EPA 8015	

Sample ID: PAAL-02-1.0

Laboratory ID: J254328-003

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic, As	5.8	5.0	mg/kg	EPA 6010	
Barium, Ba	132	0.5	mg/kg	EPA 6010	
Chromium, Cr	21.3	0.5	mg/kg	EPA 6010	
Cobalt, Co	8.0	0.5	mg/kg	EPA 6010	
Copper, Cu	22.4	0.5	mg/kg	EPA 6010	
Lead, Pb	20.7	0.5	mg/kg	EPA 6010	
Nickel, Ni	16.1	0.5	mg/kg	EPA 6010	
Vanadium, V	39.5	0.5	mg/kg	EPA 6010	
Zinc, Zn	70.8	0.5	mg/kg	EPA 6010	
Mercury, Hg	0.047	0.020	mg/kg	EPA 7471	
C10 - C28	17.7	10.0	mg/kg	EPA 8015	
C23 - C40	80.4	10.0	mg/kg	EPA 8015	

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Colby Wakeman
Lab Director

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Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

DETECTIONS SUMMARY

Sample ID: PAAL-03-1.0

Laboratory ID: J254328-005

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic, As	6.0	5.0	mg/kg	EPA 6010	
Barium, Ba	109	0.5	mg/kg	EPA 6010	
Chromium, Cr	22.2	0.5	mg/kg	EPA 6010	
Cobalt, Co	7.6	0.5	mg/kg	EPA 6010	
Copper, Cu	20.8	0.5	mg/kg	EPA 6010	
Lead, Pb	25.0	0.5	mg/kg	EPA 6010	
Nickel, Ni	16.2	0.5	mg/kg	EPA 6010	
Vanadium, V	39.9	0.5	mg/kg	EPA 6010	
Zinc, Zn	61.2	0.5	mg/kg	EPA 6010	
Mercury, Hg	0.055	0.020	mg/kg	EPA 7471	
C23 - C40	18.3	10.0	mg/kg	EPA 8015	

Sample ID: PAAL-04-1.0

Laboratory ID: J254328-007

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic, As	5.9	5.0	mg/kg	EPA 6010	
Barium, Ba	105	0.5	mg/kg	EPA 6010	
Chromium, Cr	20.8	0.5	mg/kg	EPA 6010	
Cobalt, Co	9.2	0.5	mg/kg	EPA 6010	
Copper, Cu	19.1	0.5	mg/kg	EPA 6010	
Lead, Pb	16.1	0.5	mg/kg	EPA 6010	
Nickel, Ni	14.4	0.5	mg/kg	EPA 6010	
Vanadium, V	39.6	0.5	mg/kg	EPA 6010	
Zinc, Zn	55.4	0.5	mg/kg	EPA 6010	
Mercury, Hg	0.050	0.020	mg/kg	EPA 7471	
C10 - C28	31.7	10.0	mg/kg	EPA 8015	
C13 - C22	10.3	10.0	mg/kg	EPA 8015	

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Colby Wakeman
Lab Director

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Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

DETECTIONS SUMMARY

Sample ID: PAAL-04-1.0

Laboratory ID: J254328-007

Analyte	Result	Reporting Limit	Units	Method	Notes
C23 - C40	155	10.0	mg/kg	EPA 8015	

Sample ID: PAAL-05-1.0

Laboratory ID: J254328-009

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic, As	6.3	5.0	mg/kg	EPA 6010	
Barium, Ba	114	0.5	mg/kg	EPA 6010	
Chromium, Cr	25.0	0.5	mg/kg	EPA 6010	
Cobalt, Co	8.4	0.5	mg/kg	EPA 6010	
Copper, Cu	21.8	0.5	mg/kg	EPA 6010	
Lead, Pb	15.8	0.5	mg/kg	EPA 6010	
Nickel, Ni	16.9	0.5	mg/kg	EPA 6010	
Vanadium, V	43.8	0.5	mg/kg	EPA 6010	
Zinc, Zn	58.5	0.5	mg/kg	EPA 6010	
Mercury, Hg	0.067	0.020	mg/kg	EPA 7471	
C10 - C28	45.1	10.0	mg/kg	EPA 8015	
C13 - C22	13.0	10.0	mg/kg	EPA 8015	
C23 - C40	234	10.0	mg/kg	EPA 8015	

Sample ID: PAAL-06-1.0

Laboratory ID: J254328-011

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic, As	6.9	5.0	mg/kg	EPA 6010	
Barium, Ba	96.0	0.5	mg/kg	EPA 6010	
Chromium, Cr	20.6	0.5	mg/kg	EPA 6010	
Cobalt, Co	8.7	0.5	mg/kg	EPA 6010	
Copper, Cu	19.6	0.5	mg/kg	EPA 6010	
Lead, Pb	16.3	0.5	mg/kg	EPA 6010	

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Colby Wakeman
Lab Director

Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

DETECTIONS SUMMARY

Sample ID: PAAL-06-1.0

Laboratory ID: J254328-011

Analyte	Result	Reporting Limit	Units	Method	Notes
Nickel, Ni	13.9	0.5	mg/kg	EPA 6010	
Vanadium, V	33.5	0.5	mg/kg	EPA 6010	
Zinc, Zn	59.0	0.5	mg/kg	EPA 6010	
Mercury, Hg	0.046	0.020	mg/kg	EPA 7471	
C10 - C28	71.5	10.0	mg/kg	EPA 8015	
C13 - C22	16.0	10.0	mg/kg	EPA 8015	
C23 - C40	552	10.0	mg/kg	EPA 8015	

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Lab Director

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2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-01-1.0
J254328-001(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 6010B Metals by ICP-OES by EPA 6010								
Silver, Ag	ND	0.5	mg/kg	1	QC2511233	11/13/25	EPA 6010	
Arsenic, As	5.2	5.0	mg/kg	"	"	"	"	
Barium, Ba	118	0.5	mg/kg	"	"	"	"	
Beryllium, Be	ND	0.5	mg/kg	"	"	"	"	
Cadmium, Cd	ND	0.5	mg/kg	"	"	"	"	
Cobalt, Co	7.6	0.5	mg/kg	"	"	"	"	
Chromium, Cr	21.6	0.5	mg/kg	"	"	"	"	
Copper, Cu	20.9	0.5	mg/kg	"	"	"	"	
Molybdenum, Mo	ND	0.5	mg/kg	"	"	"	"	
Nickel, Ni	14.7	0.5	mg/kg	"	"	"	"	
Lead, Pb	20.6	0.5	mg/kg	"	"	"	"	
Antimony, Sb	ND	5.0	mg/kg	"	"	"	"	
Selenium, Se	ND	5.0	mg/kg	"	"	"	"	
Thallium, Tl	ND	5.0	mg/kg	"	"	"	"	
Vanadium, V	40.4	0.5	mg/kg	"	"	"	"	
Zinc, Zn	66.6	0.5	mg/kg	"	"	"	"	
EPA 7471A Mercury via AA by EPA 7471								
Mercury, Hg	0.049	0.020	mg/kg	1	QC2511251	11/14/25	EPA 7471	
EPA 8015M Diesel and Oil via GC-FID by EPA 8015								
C10 - C28	ND	10.0	mg/kg	1	QC2511259	11/13/25	EPA 8015	
C13 - C22	ND	10.0	mg/kg	"	"	"	"	
C23 - C40	23.1	10.0	mg/kg	"	"	"	"	

Surrogate: Hexacosane 70.94 % 50 - 140



Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-02-1.0
J254328-003(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 6010B Metals by ICP-OES by EPA 6010								
Silver, Ag	ND	0.5	mg/kg	1	QC2511233	11/13/25	EPA 6010	
Arsenic, As	5.8	5.0	mg/kg	"	"	"	"	
Barium, Ba	132	0.5	mg/kg	"	"	"	"	
Beryllium, Be	ND	0.5	mg/kg	"	"	"	"	
Cadmium, Cd	ND	0.5	mg/kg	"	"	"	"	
Cobalt, Co	8.0	0.5	mg/kg	"	"	"	"	
Chromium, Cr	21.3	0.5	mg/kg	"	"	"	"	
Copper, Cu	22.4	0.5	mg/kg	"	"	"	"	
Molybdenum, Mo	ND	0.5	mg/kg	"	"	"	"	
Nickel, Ni	16.1	0.5	mg/kg	"	"	"	"	
Lead, Pb	20.7	0.5	mg/kg	"	"	"	"	
Antimony, Sb	ND	5.0	mg/kg	"	"	"	"	
Selenium, Se	ND	5.0	mg/kg	"	"	"	"	
Thallium, Tl	ND	5.0	mg/kg	"	"	"	"	
Vanadium, V	39.5	0.5	mg/kg	"	"	"	"	
Zinc, Zn	70.8	0.5	mg/kg	"	"	"	"	
EPA 7471A Mercury via AA by EPA 7471								
Mercury, Hg	0.047	0.020	mg/kg	1	QC2511251	11/14/25	EPA 7471	
EPA 8015M Diesel and Oil via GC-FID by EPA 8015								
C10 - C28	17.7	10.0	mg/kg	1	QC2511259	11/14/25	EPA 8015	
C13 - C22	ND	10.0	mg/kg	"	"	"	"	
C23 - C40	80.4	10.0	mg/kg	"	"	"	"	
<i>Surrogate: Hexacosane</i>	66.71 %	50 - 140						
EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081								
alpha-BHC	ND	10.0	µg/kg	1	QC2511287	11/13/25	EPA 8081	
beta-BHC	ND	10.0	µg/kg	"	"	"	"	
gamma-BHC (Lindane)	ND	10.0	µg/kg	"	"	"	"	
Heptachlor	ND	10.0	µg/kg	"	"	"	"	
delta-BHC	ND	10.0	µg/kg	"	"	"	"	
Aldrin	ND	10.0	µg/kg	"	"	"	"	
Heptachlor epoxide	ND	10.0	µg/kg	"	"	"	"	
gamma-Chlordane	ND	10.0	µg/kg	"	"	"	"	
alpha-Chlordane	ND	10.0	µg/kg	"	"	"	"	
Endosulfan I	ND	10.0	µg/kg	"	"	"	"	
4,4'-DDE	ND	10.0	µg/kg	"	"	"	"	
Dieldrin	ND	10.0	µg/kg	"	"	"	"	

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Colby Wakeman
Lab Director

Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-02-1.0
J254328-003(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
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EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081

Endrin	ND	10.0	µg/kg	1	QC2511287	11/13/25	EPA 8081	
4,4'-DDD	ND	10.0	µg/kg	"	"	"	"	
Endosulfan II	ND	10.0	µg/kg	"	"	"	"	
4,4'-DDT	ND	10.0	µg/kg	"	"	"	"	
Endrin aldehyde	ND	10.0	µg/kg	"	"	"	"	
Endosulfan sulfate	ND	10.0	µg/kg	"	"	"	"	
Methoxychlor	ND	20.0	µg/kg	"	"	"	"	
Endrin ketone	ND	10.0	µg/kg	"	"	"	"	
Toxaphene	ND	20.0	µg/kg	"	"	"	"	

Surrogate: TCMX

87.76 % 30 - 135

Surrogate: Decachlorobiphenyl

72.46 % 30 - 135

EPA 8082 Polychlorinated Biphenyls (PCBs) by GC-ECD by EPA 8082

Aroclor 1016	ND	50.0	µg/kg	1	QC2511288	11/13/25	EPA 8082	
Aroclor 1221	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1232	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1242	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1248	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1254	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1260	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1262	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1268	ND	50.0	µg/kg	"	"	"	"	

Surrogate: TCMX

92.55 % 30 - 135

Surrogate: Decachlorobiphenyl

82.91 % 30 - 135

EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260

Benzene	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
Bromobenzene	ND	1.0	µg/kg	"	"	"	"	
Bromodichloromethane	ND	1.0	µg/kg	"	"	"	"	
Bromoform	ND	1.0	µg/kg	"	"	"	"	
n-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
sec-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
tert-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
Carbon tetrachloride	ND	1.0	µg/kg	"	"	"	"	
Chlorobenzene	ND	1.0	µg/kg	"	"	"	"	
Chloroform	ND	1.0	µg/kg	"	"	"	"	
2-Chlorotoluene	ND	1.0	µg/kg	"	"	"	"	
4-Chlorotoluene	ND	1.0	µg/kg	"	"	"	"	

Jones Environmental, Inc.



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Colby Wakeman
Lab Director

Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-02-1.0
J254328-003(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260								
Dibromochloromethane	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg	"	"	"	"	
Dibromomethane	ND	1.0	µg/kg	"	"	"	"	
1,2- Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,2-Dichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
1,2-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
1,3-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
2,2-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
Ethylbenzene	ND	1.0	µg/kg	"	"	"	"	
Freon 11	ND	5.0	µg/kg	"	"	"	"	
Freon 12	ND	5.0	µg/kg	"	"	"	"	
Freon 113	ND	5.0	µg/kg	"	"	"	"	
Hexachlorobutadiene	ND	1.0	µg/kg	"	"	"	"	
Isopropylbenzene	ND	1.0	µg/kg	"	"	"	"	
4-Isopropyltoluene	ND	1.0	µg/kg	"	"	"	"	
Methylene chloride	ND	1.0	µg/kg	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	
n-Propylbenzene	ND	1.0	µg/kg	"	"	"	"	
Styrene	ND	1.0	µg/kg	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg	"	"	"	"	
Tetrachloroethene	ND	1.0	µg/kg	"	"	"	"	
Toluene	ND	1.0	µg/kg	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	µg/kg	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	µg/kg	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	µg/kg	"	"	"	"	
Trichloroethene	ND	1.0	µg/kg	"	"	"	"	

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Colby Wakeman
Lab Director

Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-02-1.0
J254328-003(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260								
1,2,3-Trichloropropane	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
1,2,4-Trimethylbenzene	ND	1.0	µg/kg	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	µg/kg	"	"	"	"	
Vinyl chloride	ND	1.0	µg/kg	"	"	"	"	
m+p-Xylene	ND	2.0	µg/kg	"	"	"	"	
o-Xylene	ND	1.0	µg/kg	"	"	"	"	
Methyl-tert-butylether	ND	5.0	µg/kg	"	"	"	"	
Ethyl-tert-butylether	ND	5.0	µg/kg	"	"	"	"	
Di-isopropylether	ND	5.0	µg/kg	"	"	"	"	
tert-amylmethylether	ND	5.0	µg/kg	"	"	"	"	
tert-Butylalcohol	ND	50.0	µg/kg	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	0.20	mg/kg	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>102.34 %</i>	<i>60 - 140</i>						
<i>Surrogate: Dibromofluoromethane</i>	<i>121.15 %</i>	<i>60 - 140</i>						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>97.45 %</i>	<i>60 - 140</i>						

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2600 Michelson Drive
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Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-03-1.0
J254328-005(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 6010B Metals by ICP-OES by EPA 6010								
Silver, Ag	ND	0.5	mg/kg	1	QC2511233	11/13/25	EPA 6010	
Arsenic, As	6.0	5.0	mg/kg	"	"	"	"	
Barium, Ba	109	0.5	mg/kg	"	"	"	"	
Beryllium, Be	ND	0.5	mg/kg	"	"	"	"	
Cadmium, Cd	ND	0.5	mg/kg	"	"	"	"	
Cobalt, Co	7.6	0.5	mg/kg	"	"	"	"	
Chromium, Cr	22.2	0.5	mg/kg	"	"	"	"	
Copper, Cu	20.8	0.5	mg/kg	"	"	"	"	
Molybdenum, Mo	ND	0.5	mg/kg	"	"	"	"	
Nickel, Ni	16.2	0.5	mg/kg	"	"	"	"	
Lead, Pb	25.0	0.5	mg/kg	"	"	"	"	
Antimony, Sb	ND	5.0	mg/kg	"	"	"	"	
Selenium, Se	ND	5.0	mg/kg	"	"	"	"	
Thallium, Tl	ND	5.0	mg/kg	"	"	"	"	
Vanadium, V	39.9	0.5	mg/kg	"	"	"	"	
Zinc, Zn	61.2	0.5	mg/kg	"	"	"	"	
EPA 7471A Mercury via AA by EPA 7471								
Mercury, Hg	0.055	0.020	mg/kg	1	QC2511251	11/14/25	EPA 7471	
EPA 8015M Diesel and Oil via GC-FID by EPA 8015								
C10 - C28	ND	10.0	mg/kg	1	QC2511259	11/13/25	EPA 8015	
C13 - C22	ND	10.0	mg/kg	"	"	"	"	
C23 - C40	18.3	10.0	mg/kg	"	"	"	"	

Surrogate: Hexacosane 63.75 % 50 - 140

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Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-04-1.0
J254328-007(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 6010B Metals by ICP-OES by EPA 6010								
Silver, Ag	ND	0.5	mg/kg	1	QC2511233	11/13/25	EPA 6010	
Arsenic, As	5.9	5.0	mg/kg	"	"	"	"	
Barium, Ba	105	0.5	mg/kg	"	"	"	"	
Beryllium, Be	ND	0.5	mg/kg	"	"	"	"	
Cadmium, Cd	ND	0.5	mg/kg	"	"	"	"	
Cobalt, Co	9.2	0.5	mg/kg	"	"	"	"	
Chromium, Cr	20.8	0.5	mg/kg	"	"	"	"	
Copper, Cu	19.1	0.5	mg/kg	"	"	"	"	
Molybdenum, Mo	ND	0.5	mg/kg	"	"	"	"	
Nickel, Ni	14.4	0.5	mg/kg	"	"	"	"	
Lead, Pb	16.1	0.5	mg/kg	"	"	"	"	
Antimony, Sb	ND	5.0	mg/kg	"	"	"	"	
Selenium, Se	ND	5.0	mg/kg	"	"	"	"	
Thallium, Tl	ND	5.0	mg/kg	"	"	"	"	
Vanadium, V	39.6	0.5	mg/kg	"	"	"	"	
Zinc, Zn	55.4	0.5	mg/kg	"	"	"	"	
EPA 7471A Mercury via AA by EPA 7471								
Mercury, Hg	0.050	0.020	mg/kg	1	QC2511251	11/14/25	EPA 7471	
EPA 8015M Diesel and Oil via GC-FID by EPA 8015								
C10 - C28	31.7	10.0	mg/kg	1	QC2511259	11/14/25	EPA 8015	
C13 - C22	10.3	10.0	mg/kg	"	"	"	"	
C23 - C40	155	10.0	mg/kg	"	"	"	"	
<i>Surrogate: Hexacosane</i>	72.33 %	50 - 140						
EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081								
alpha-BHC	ND	10.0	µg/kg	1	QC2511287	11/13/25	EPA 8081	
beta-BHC	ND	10.0	µg/kg	"	"	"	"	
gamma-BHC (Lindane)	ND	10.0	µg/kg	"	"	"	"	
Heptachlor	ND	10.0	µg/kg	"	"	"	"	
delta-BHC	ND	10.0	µg/kg	"	"	"	"	
Aldrin	ND	10.0	µg/kg	"	"	"	"	
Heptachlor epoxide	ND	10.0	µg/kg	"	"	"	"	
gamma-Chlordane	ND	10.0	µg/kg	"	"	"	"	
alpha-Chlordane	ND	10.0	µg/kg	"	"	"	"	
Endosulfan I	ND	10.0	µg/kg	"	"	"	"	
4,4'-DDE	ND	10.0	µg/kg	"	"	"	"	
Dieldrin	ND	10.0	µg/kg	"	"	"	"	

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Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-04-1.0
J254328-007(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
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EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081

Endrin	ND	10.0	µg/kg	1	QC2511287	11/13/25	EPA 8081	
4,4'-DDD	ND	10.0	µg/kg	"	"	"	"	
Endosulfan II	ND	10.0	µg/kg	"	"	"	"	
4,4'-DDT	ND	10.0	µg/kg	"	"	"	"	
Endrin aldehyde	ND	10.0	µg/kg	"	"	"	"	
Endosulfan sulfate	ND	10.0	µg/kg	"	"	"	"	
Methoxychlor	ND	20.0	µg/kg	"	"	"	"	
Endrin ketone	ND	10.0	µg/kg	"	"	"	"	
Toxaphene	ND	20.0	µg/kg	"	"	"	"	

Surrogate: TCMX 93.56 % 30 - 135

Surrogate: Decachlorobiphenyl 75.93 % 30 - 135

EPA 8082 Polychlorinated Biphenyls (PCBs) by GC-ECD by EPA 8082

Aroclor 1016	ND	50.0	µg/kg	1	QC2511288	11/13/25	EPA 8082	
Aroclor 1221	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1232	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1242	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1248	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1254	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1260	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1262	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1268	ND	50.0	µg/kg	"	"	"	"	

Surrogate: TCMX 98.35 % 30 - 135

Surrogate: Decachlorobiphenyl 86.62 % 30 - 135

EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260

Benzene	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
Bromobenzene	ND	1.0	µg/kg	"	"	"	"	
Bromodichloromethane	ND	1.0	µg/kg	"	"	"	"	
Bromoform	ND	1.0	µg/kg	"	"	"	"	
n-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
sec-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
tert-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
Carbon tetrachloride	ND	1.0	µg/kg	"	"	"	"	
Chlorobenzene	ND	1.0	µg/kg	"	"	"	"	
Chloroform	ND	1.0	µg/kg	"	"	"	"	
2-Chlorotoluene	ND	1.0	µg/kg	"	"	"	"	
4-Chlorotoluene	ND	1.0	µg/kg	"	"	"	"	

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Reported
11/19/25 11:24

PAAL-04-1.0
J254328-007(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260								
Dibromochloromethane	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg	"	"	"	"	
Dibromomethane	ND	1.0	µg/kg	"	"	"	"	
1,2- Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,2-Dichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
1,2-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
1,3-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
2,2-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
Ethylbenzene	ND	1.0	µg/kg	"	"	"	"	
Freon 11	ND	5.0	µg/kg	"	"	"	"	
Freon 12	ND	5.0	µg/kg	"	"	"	"	
Freon 113	ND	5.0	µg/kg	"	"	"	"	
Hexachlorobutadiene	ND	1.0	µg/kg	"	"	"	"	
Isopropylbenzene	ND	1.0	µg/kg	"	"	"	"	
4-Isopropyltoluene	ND	1.0	µg/kg	"	"	"	"	
Methylene chloride	ND	1.0	µg/kg	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	
n-Propylbenzene	ND	1.0	µg/kg	"	"	"	"	
Styrene	ND	1.0	µg/kg	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg	"	"	"	"	
Tetrachloroethene	ND	1.0	µg/kg	"	"	"	"	
Toluene	ND	1.0	µg/kg	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	µg/kg	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	µg/kg	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	µg/kg	"	"	"	"	
Trichloroethene	ND	1.0	µg/kg	"	"	"	"	

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Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-04-1.0
J254328-007(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260								
1,2,3-Trichloropropane	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
1,2,4-Trimethylbenzene	ND	1.0	µg/kg	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	µg/kg	"	"	"	"	
Vinyl chloride	ND	1.0	µg/kg	"	"	"	"	
m+p-Xylene	ND	2.0	µg/kg	"	"	"	"	
o-Xylene	ND	1.0	µg/kg	"	"	"	"	
Methyl-tert-butylether	ND	5.0	µg/kg	"	"	"	"	
Ethyl-tert-butylether	ND	5.0	µg/kg	"	"	"	"	
Di-isopropylether	ND	5.0	µg/kg	"	"	"	"	
tert-amylmethylether	ND	5.0	µg/kg	"	"	"	"	
tert-Butylalcohol	ND	50.0	µg/kg	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	0.20	mg/kg	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>91.83 %</i>	<i>60 - 140</i>						
<i>Surrogate: Dibromofluoromethane</i>	<i>108.89 %</i>	<i>60 - 140</i>						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>87.52 %</i>	<i>60 - 140</i>						

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2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-05-1.0
J254328-009(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 6010B Metals by ICP-OES by EPA 6010								
Silver, Ag	ND	0.5	mg/kg	1	QC2511233	11/13/25	EPA 6010	
Arsenic, As	6.3	5.0	mg/kg	"	"	"	"	
Barium, Ba	114	0.5	mg/kg	"	"	"	"	
Beryllium, Be	ND	0.5	mg/kg	"	"	"	"	
Cadmium, Cd	ND	0.5	mg/kg	"	"	"	"	
Cobalt, Co	8.4	0.5	mg/kg	"	"	"	"	
Chromium, Cr	25.0	0.5	mg/kg	"	"	"	"	
Copper, Cu	21.8	0.5	mg/kg	"	"	"	"	
Molybdenum, Mo	ND	0.5	mg/kg	"	"	"	"	
Nickel, Ni	16.9	0.5	mg/kg	"	"	"	"	
Lead, Pb	15.8	0.5	mg/kg	"	"	"	"	
Antimony, Sb	ND	5.0	mg/kg	"	"	"	"	
Selenium, Se	ND	5.0	mg/kg	"	"	"	"	
Thallium, Tl	ND	5.0	mg/kg	"	"	"	"	
Vanadium, V	43.8	0.5	mg/kg	"	"	"	"	
Zinc, Zn	58.5	0.5	mg/kg	"	"	"	"	
EPA 7471A Mercury via AA by EPA 7471								
Mercury, Hg	0.067	0.020	mg/kg	1	QC2511251	11/14/25	EPA 7471	
EPA 8015M Diesel and Oil via GC-FID by EPA 8015								
C10 - C28	45.1	10.0	mg/kg	1	QC2511259	11/14/25	EPA 8015	
C13 - C22	13.0	10.0	mg/kg	"	"	"	"	
C23 - C40	234	10.0	mg/kg	"	"	"	"	

Surrogate: Hexacosane 75.03 % 50 - 140



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Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-06-1.0
J254328-011(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 6010B Metals by ICP-OES by EPA 6010								
Silver, Ag	ND	0.5	mg/kg	1	QC2511233	11/13/25	EPA 6010	
Arsenic, As	6.9	5.0	mg/kg	"	"	"	"	
Barium, Ba	96.0	0.5	mg/kg	"	"	"	"	
Beryllium, Be	ND	0.5	mg/kg	"	"	"	"	
Cadmium, Cd	ND	0.5	mg/kg	"	"	"	"	
Cobalt, Co	8.7	0.5	mg/kg	"	"	"	"	
Chromium, Cr	20.6	0.5	mg/kg	"	"	"	"	
Copper, Cu	19.6	0.5	mg/kg	"	"	"	"	
Molybdenum, Mo	ND	0.5	mg/kg	"	"	"	"	
Nickel, Ni	13.9	0.5	mg/kg	"	"	"	"	
Lead, Pb	16.3	0.5	mg/kg	"	"	"	"	
Antimony, Sb	ND	5.0	mg/kg	"	"	"	"	
Selenium, Se	ND	5.0	mg/kg	"	"	"	"	
Thallium, Tl	ND	5.0	mg/kg	"	"	"	"	
Vanadium, V	33.5	0.5	mg/kg	"	"	"	"	
Zinc, Zn	59.0	0.5	mg/kg	"	"	"	"	
EPA 7471A Mercury via AA by EPA 7471								
Mercury, Hg	0.046	0.020	mg/kg	1	QC2511251	11/14/25	EPA 7471	
EPA 8015M Diesel and Oil via GC-FID by EPA 8015								
C10 - C28	71.5	10.0	mg/kg	1	QC2511259	11/14/25	EPA 8015	
C13 - C22	16.0	10.0	mg/kg	"	"	"	"	
C23 - C40	552	10.0	mg/kg	"	"	"	"	
<i>Surrogate: Hexacosane</i>	72.46 %	50 - 140						
EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081								
alpha-BHC	ND	10.0	µg/kg	1	QC2511287	11/13/25	EPA 8081	
beta-BHC	ND	10.0	µg/kg	"	"	"	"	
gamma-BHC (Lindane)	ND	10.0	µg/kg	"	"	"	"	
Heptachlor	ND	10.0	µg/kg	"	"	"	"	
delta-BHC	ND	10.0	µg/kg	"	"	"	"	
Aldrin	ND	10.0	µg/kg	"	"	"	"	
Heptachlor epoxide	ND	10.0	µg/kg	"	"	"	"	
gamma-Chlordane	ND	10.0	µg/kg	"	"	"	"	
alpha-Chlordane	ND	10.0	µg/kg	"	"	"	"	
Endosulfan I	ND	10.0	µg/kg	"	"	"	"	
4,4'-DDE	ND	10.0	µg/kg	"	"	"	"	
Dieldrin	ND	10.0	µg/kg	"	"	"	"	

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Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-06-1.0
J254328-011(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
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EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081

Endrin	ND	10.0	µg/kg	1	QC2511287	11/13/25	EPA 8081	
4,4'-DDD	ND	10.0	µg/kg	"	"	"	"	
Endosulfan II	ND	10.0	µg/kg	"	"	"	"	
4,4'-DDT	ND	10.0	µg/kg	"	"	"	"	
Endrin aldehyde	ND	10.0	µg/kg	"	"	"	"	
Endosulfan sulfate	ND	10.0	µg/kg	"	"	"	"	
Methoxychlor	ND	20.0	µg/kg	"	"	"	"	
Endrin ketone	ND	10.0	µg/kg	"	"	"	"	
Toxaphene	ND	20.0	µg/kg	"	"	"	"	

Surrogate: TCMX 74.84 % 30 - 135

Surrogate: Decachlorobiphenyl 61.35 % 30 - 135

EPA 8082 Polychlorinated Biphenyls (PCBs) by GC-ECD by EPA 8082

Aroclor 1016	ND	50.0	µg/kg	1	QC2511288	11/13/25	EPA 8082	
Aroclor 1221	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1232	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1242	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1248	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1254	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1260	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1262	ND	50.0	µg/kg	"	"	"	"	
Aroclor 1268	ND	50.0	µg/kg	"	"	"	"	

Surrogate: TCMX 79.62 % 30 - 135

Surrogate: Decachlorobiphenyl 71.03 % 30 - 135

EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260

Benzene	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
Bromobenzene	ND	1.0	µg/kg	"	"	"	"	
Bromodichloromethane	ND	1.0	µg/kg	"	"	"	"	
Bromoform	ND	1.0	µg/kg	"	"	"	"	
n-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
sec-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
tert-Butylbenzene	ND	1.0	µg/kg	"	"	"	"	
Carbon tetrachloride	ND	1.0	µg/kg	"	"	"	"	
Chlorobenzene	ND	1.0	µg/kg	"	"	"	"	
Chloroform	ND	1.0	µg/kg	"	"	"	"	
2-Chlorotoluene	ND	1.0	µg/kg	"	"	"	"	
4-Chlorotoluene	ND	1.0	µg/kg	"	"	"	"	

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Verdantas, Inc.
2600 Michelson Drive
Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

PAAL-06-1.0
J254328-011(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260								
Dibromochloromethane	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg	"	"	"	"	
Dibromomethane	ND	1.0	µg/kg	"	"	"	"	
1,2- Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,2-Dichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	µg/kg	"	"	"	"	
1,2-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
1,3-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
2,2-Dichloropropane	ND	1.0	µg/kg	"	"	"	"	
1,1-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	µg/kg	"	"	"	"	
Ethylbenzene	ND	1.0	µg/kg	"	"	"	"	
Freon 11	ND	5.0	µg/kg	"	"	"	"	
Freon 12	ND	5.0	µg/kg	"	"	"	"	
Freon 113	ND	5.0	µg/kg	"	"	"	"	
Hexachlorobutadiene	ND	1.0	µg/kg	"	"	"	"	
Isopropylbenzene	ND	1.0	µg/kg	"	"	"	"	
4-Isopropyltoluene	ND	1.0	µg/kg	"	"	"	"	
Methylene chloride	ND	1.0	µg/kg	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	
n-Propylbenzene	ND	1.0	µg/kg	"	"	"	"	
Styrene	ND	1.0	µg/kg	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg	"	"	"	"	
Tetrachloroethene	ND	1.0	µg/kg	"	"	"	"	
Toluene	ND	1.0	µg/kg	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	µg/kg	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	µg/kg	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	µg/kg	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	µg/kg	"	"	"	"	
Trichloroethene	ND	1.0	µg/kg	"	"	"	"	

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2600 Michelson Drive	Project Number:	036.0000038939	Reported
Irvine, CA 92612	Project Manager:	Jonathan Harrington	11/19/25 11:24

PAAL-06-1.0
J254328-011(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260								
1,2,3-Trichloropropane	ND	1.0	µg/kg	1	QC2511272	11/14/25	EPA 8260	
1,2,4-Trimethylbenzene	ND	1.0	µg/kg	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	µg/kg	"	"	"	"	
Vinyl chloride	ND	1.0	µg/kg	"	"	"	"	
m+p-Xylene	ND	2.0	µg/kg	"	"	"	"	
o-Xylene	ND	1.0	µg/kg	"	"	"	"	
Methyl-tert-butylether	ND	5.0	µg/kg	"	"	"	"	
Ethyl-tert-butylether	ND	5.0	µg/kg	"	"	"	"	
Di-isopropylether	ND	5.0	µg/kg	"	"	"	"	
tert-amylmethylether	ND	5.0	µg/kg	"	"	"	"	
tert-Butylalcohol	ND	50.0	µg/kg	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	0.20	mg/kg	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>106.45 %</i>	<i>60 - 140</i>						
<i>Surrogate: Dibromofluoromethane</i>	<i>121.62 %</i>	<i>60 - 140</i>						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.17 %</i>	<i>60 - 140</i>						

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2600 Michelson Drive	Project Number:	036.0000038939	Reported
Irvine, CA 92612	Project Manager:	Jonathan Harrington	11/19/25 11:24

EPA 6010B Metals by ICP-OES by EPA 6010 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
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Batch QC2511233 - EPA 6010

CCV 1

Barium, Ba	1.0	0.5	%	1		101	90 - 110		110	
Cobalt, Co	1.0	0.5	%	1		102	90 - 110		110	
Lead, Pb	1.0	0.5	%	1		102	90 - 110		110	
Selenium, Se	1.0	5.0	%	1		102	90 - 110		110	
Zinc, Zn	1.0	0.5	%	1		102	90 - 110		110	

LCS 1

Barium, Ba	207	0.5	%	200		104	80 - 120			
Cobalt, Co	50.8	0.5	%	50		102	80 - 120			
Lead, Pb	49.2	0.5	%	50		98	80 - 120			
Selenium, Se	182	5.0	%	200		91	80 - 120			
Zinc, Zn	49.0	0.5	%	50		98	80 - 120			

LCSD 1

Barium, Ba	201	0.5	%	200		101	80 - 120	3.02	120	
Cobalt, Co	49.8	0.5	%	50		100	80 - 120	1.85	120	
Lead, Pb	48.3	0.5	%	50		97	80 - 120	1.74	120	
Selenium, Se	179	5.0	%	200		90	80 - 120	1.15	120	
Zinc, Zn	48.3	0.5	%	50		97	80 - 120	1.45	120	

Method Blank 1

Silver, Ag	ND	0.5	mg/kg							
Arsenic, As	ND	5.0	mg/kg							
Barium, Ba	ND	0.5	mg/kg							
Beryllium, Be	ND	0.5	mg/kg							
Cadmium, Cd	ND	0.5	mg/kg							
Cobalt, Co	ND	0.5	mg/kg							
Chromium, Cr	ND	0.5	mg/kg							
Copper, Cu	ND	0.5	mg/kg							
Molybdenum, Mo	ND	0.5	mg/kg							
Nickel, Ni	ND	0.5	mg/kg							
Lead, Pb	ND	0.5	mg/kg							
Antimony, Sb	ND	5.0	mg/kg							
Selenium, Se	ND	5.0	mg/kg							
Thallium, Tl	ND	5.0	mg/kg							
Vanadium, V	ND	0.5	mg/kg							
Zinc, Zn	ND	0.5	mg/kg							

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Irvine, CA 92612	Project Manager:	Jonathan Harrington	11/19/25 11:24

EPA 7471A Mercury via AA by EPA 7471 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2511251 - EPA 7471										
CCV 1										
Mercury, Hg	5.138	0.020	%	5		103	80 - 120		120	
LCS 1										
Mercury, Hg	1.00	0.020	%	1		100	80 - 120			
LCSD 1										
Mercury, Hg	0.984	0.020	%	1		98	80 - 120	1.56	120	
Method Blank 1										
Mercury, Hg	ND	0.020	mg/kg							

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Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

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EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
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Batch QC2511287 - EPA 8081
CCV 1

alpha-BHC	113	10.0	%	100		113	80 - 120		120	
Heptachlor	115	10.0	%	100		115	80 - 120		120	
Aldrin	115	10.0	%	100		115	80 - 120		120	
Heptachlor epoxide	116	10.0	%	100		116	80 - 120		120	
gamma-Chlordane	112	10.0	%	100		112	80 - 120		120	
Endosulfan I	118	10.0	%	100		118	80 - 120		120	
4,4'-DDE	111	10.0	%	100		111	80 - 120		120	
Dieldrin	113	10.0	%	100		113	80 - 120		120	
Endrin	108	10.0	%	100		108	80 - 120		120	
4,4'-DDD	111	10.0	%	100		111	80 - 120		120	
Endosulfan II	110	10.0	%	100		110	80 - 120		120	
4,4'-DDT	115	10.0	%	100		115	80 - 120		120	
Endrin ketone	112	10.0	%	100		112	80 - 120		120	

LCS 1

alpha-BHC	105	10.0	%	100		105	60 - 140			
Heptachlor	118	10.0	%	100		118	60 - 140			
Aldrin	108	10.0	%	100		108	60 - 140			
Heptachlor epoxide	109	10.0	%	100		109	60 - 140			
gamma-Chlordane	104	10.0	%	100		104	60 - 140			
Endosulfan I	108	10.0	%	100		108	60 - 140			
4,4'-DDE	102	10.0	%	100		102	60 - 140			
Dieldrin	105	10.0	%	100		105	60 - 140			
Endrin	107	10.0	%	100		107	60 - 140			
4,4'-DDD	107	10.0	%	100		107	60 - 140			
Endosulfan II	105	10.0	%	100		105	60 - 140			
4,4'-DDT	108	10.0	%	100		108	60 - 140			
Endrin ketone	108	10.0	%	100		108	60 - 140			

Surrogate: TCMX 126.00 % 30 - 135

Surrogate: Decachlorobiphenyl 112.43 % 30 - 135

LCSD 1

alpha-BHC	110	10.0	%	100		110	60 - 140	5.06	140	
Heptachlor	116	10.0	%	100		116	60 - 140	1.41	140	
Aldrin	112	10.0	%	100		112	60 - 140	3.07	140	
Heptachlor epoxide	117	10.0	%	100		117	60 - 140	6.49	140	
gamma-Chlordane	112	10.0	%	100		112	60 - 140	7.70	140	

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2600 Michelson Drive	Project Number:	036.0000038939	Reported
Irvine, CA 92612	Project Manager:	Jonathan Harrington	11/19/25 11:24

EPA 8081A Organochlorinated Pesticides (OCPs) by GC-ECD by EPA 8081 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
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Batch QC2511287 - EPA 8081

LCSD 1

Endosulfan I	114	10.0	%	100		114	60 - 140	5.52	140	
4,4'-DDE	112	10.0	%	100		112	60 - 140	8.94	140	
Dieldrin	114	10.0	%	100		114	60 - 140	8.58	140	
Endrin	115	10.0	%	100		115	60 - 140	7.53	140	
4,4'-DDD	109	10.0	%	100		109	60 - 140	2.08	140	
Endosulfan II	113	10.0	%	100		113	60 - 140	7.27	140	
4,4'-DDT	116	10.0	%	100		116	60 - 140	7.02	140	
Endrin ketone	113	10.0	%	100		113	60 - 140	4.40	140	

Surrogate: TCMX 127.82 % 30 - 135

Surrogate: Decachlorobiphenyl 114.96 % 30 - 135

Method Blank 1

alpha-BHC	ND	10.0	µg/kg
beta-BHC	ND	10.0	µg/kg
gamma-BHC (Lindane)	ND	10.0	µg/kg
Heptachlor	ND	10.0	µg/kg
delta-BHC	ND	10.0	µg/kg
Aldrin	ND	10.0	µg/kg
Heptachlor epoxide	ND	10.0	µg/kg
gamma-Chlordane	ND	10.0	µg/kg
alpha-Chlordane	ND	10.0	µg/kg
Endosulfan I	ND	10.0	µg/kg
4,4'-DDE	ND	10.0	µg/kg
Dieldrin	ND	10.0	µg/kg
Endrin	ND	10.0	µg/kg
4,4'-DDD	ND	10.0	µg/kg
Endosulfan II	ND	10.0	µg/kg
4,4'-DDT	ND	10.0	µg/kg
Endrin aldehyde	ND	10.0	µg/kg
Endosulfan sulfate	ND	10.0	µg/kg
Methoxychlor	ND	20.0	µg/kg
Endrin ketone	ND	10.0	µg/kg
Toxaphene	ND	20.0	µg/kg

Surrogate: TCMX 123.63 % 30 - 135

Surrogate: Decachlorobiphenyl 112.92 % 30 - 135

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Irvine, CA 92612

Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

EPA 8082 Polychlorinated Biphenyls (PCBs) by GC-ECD by EPA 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
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Batch QC2511288 - EPA 8082
CCV 1

Aroclor 1016	1020.0	50.0	%	1000		102	80 - 120		120	
Aroclor 1260	1020.0	50.0	%	1000		102	80 - 120		120	

LCS 1

Aroclor 1016	498	50.0	%	500		100	50 - 130			
Aroclor 1260	524	50.0	%	500		105	50 - 130			

<i>Surrogate: TCMX</i>		130.35 %	30 - 135							
<i>Surrogate: Decachlorobiphenyl</i>		132.37 %	30 - 135							

LCSD 1

Aroclor 1016	490	50.0	%	500		98	50 - 130	1.48	130	
Aroclor 1260	520	50.0	%	500		104	50 - 130	0.66	130	

<i>Surrogate: TCMX</i>		124.84 %	30 - 135							
<i>Surrogate: Decachlorobiphenyl</i>		132.71 %	30 - 135							

Method Blank 1

Aroclor 1016	ND	50.0	µg/kg							
Aroclor 1221	ND	50.0	µg/kg							
Aroclor 1232	ND	50.0	µg/kg							
Aroclor 1242	ND	50.0	µg/kg							
Aroclor 1248	ND	50.0	µg/kg							
Aroclor 1254	ND	50.0	µg/kg							
Aroclor 1260	ND	50.0	µg/kg							
Aroclor 1262	ND	50.0	µg/kg							
Aroclor 1268	ND	50.0	µg/kg							

<i>Surrogate: TCMX</i>		132.21 %	30 - 135							
<i>Surrogate: Decachlorobiphenyl</i>		127.04 %	30 - 135							

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Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan Harrington

Reported
11/19/25 11:24

EPA 8015M Diesel and Oil via GC-FID by EPA 8015 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2511259 - EPA 8015										
CCV 1										
C10 - C28	1130	10.0	%	1000		113	80 - 120		120	
LCS 1										
C10 - C28	540	10.0	%	500		108	60 - 140			
<i>Surrogate: Hexacosane</i>		86.72 %		50 - 140						
LCSD 1										
C10 - C28	573	10.0	%	500		115	60 - 140	5.88	140	
<i>Surrogate: Hexacosane</i>		84.76 %		50 - 140						
Method Blank 1										
C10 - C28	ND	10.0	mg/kg							
C13 - C22	ND	10.0	mg/kg							
C23 - C40	ND	10.0	mg/kg							
<i>Surrogate: Hexacosane</i>		88.09 %		50 - 140						

Verdantas, Inc.	Project:	Polytechnic High School Improve	
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Irvine, CA 92612	Project Manager:	Jonathan Harrington	11/19/25 11:24

EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
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Batch QC2511272 - EPA 8260

CCV 1

Benzene	260	1.0	%	250		104	80 - 120		120	
Chlorobenzene	255	1.0	%	250		102	80 - 120		120	
1,1-Dichloroethene	227	1.0	%	250		91	80 - 120		120	
cis-1,2-Dichloroethene	243	1.0	%	250		97	80 - 120		120	
Ethylbenzene	232	1.0	%	250		93	80 - 120		120	
Tetrachloroethene	243	1.0	%	250		97	80 - 120		120	
Toluene	232	1.0	%	250		93	80 - 120		120	
1,1,1-Trichloroethane	257	1.0	%	250		103	80 - 120		120	
Trichloroethene	252	1.0	%	250		101	80 - 120		120	
1,2,4-Trimethylbenzene	242	1.0	%	250		97	80 - 120		120	
Vinyl chloride	279	1.0	%	250		112	80 - 120		120	

LCS 1

Benzene	48.2	1.0	%	50		96	70 - 130			
Chlorobenzene	48.9	1.0	%	50		98	70 - 130			
1,1-Dichloroethene	45.3	1.0	%	50		91	60 - 140			
cis-1,2-Dichloroethene	46.8	1.0	%	50		94	70 - 130			
Ethylbenzene	41.8	1.0	%	50		84	70 - 130			
Tetrachloroethene	42.8	1.0	%	50		86	70 - 130			
Toluene	42.5	1.0	%	50		85	70 - 130			
1,1,1-Trichloroethane	47.7	1.0	%	50		95	70 - 130			
Trichloroethene	47.8	1.0	%	50		96	70 - 130			
1,2,4-Trimethylbenzene	42.2	1.0	%	50		84	70 - 130			
Vinyl chloride	48.7	1.0	%	50		97	60 - 140			

Surrogate: Toluene-d8 88.38 % 60 - 140

Surrogate: Dibromofluoromethane 102.31 % 60 - 140

Surrogate: 4-Bromofluorobenzene 86.20 % 60 - 140

LCSD 1

Benzene	52.7	1.0	%	50		105	70 - 130	8.87	130	
Chlorobenzene	51.7	1.0	%	50		103	70 - 130	5.41	130	
1,1-Dichloroethene	48.0	1.0	%	50		96	60 - 140	5.87	140	
cis-1,2-Dichloroethene	49.8	1.0	%	50		100	70 - 130	6.08	130	
Ethylbenzene	45.5	1.0	%	50		91	70 - 130	8.39	130	
Tetrachloroethene	49.1	1.0	%	50		98	70 - 130	13.66	130	
Toluene	46.4	1.0	%	50		93	70 - 130	8.75	130	
1,1,1-Trichloroethane	49.5	1.0	%	50		99	70 - 130	3.58	130	

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Verdantas, Inc.	Project:	Polytechnic High School Improve	
2600 Michelson Drive	Project Number:	036.0000038939	Reported
Irvine, CA 92612	Project Manager:	Jonathan Harrington	11/19/25 11:24

EPA 8260B Volatile Organic Compounds via GC/MS by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
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Batch QC2511272 - EPA 8260

LCSD 1

Trichloroethene	53.6	1.0	%	50		107	70 - 130	11.47	130	
1,2,4-Trimethylbenzene	45.7	1.0	%	50		91	70 - 130	8.13	130	
Vinyl chloride	48.7	1.0	%	50		97	60 - 140	0.07	140	

Surrogate: Toluene-d8	93.37 %	60 - 140
Surrogate: Dibromofluoromethane	104.79 %	60 - 140
Surrogate: 4-Bromofluorobenzene	91.71 %	60 - 140

Method Blank 1

Benzene	ND	1.0	µg/kg
Bromobenzene	ND	1.0	µg/kg
Bromodichloromethane	ND	1.0	µg/kg
Bromoform	ND	1.0	µg/kg
n-Butylbenzene	ND	1.0	µg/kg
sec-Butylbenzene	ND	1.0	µg/kg
tert-Butylbenzene	ND	1.0	µg/kg
Carbon tetrachloride	ND	1.0	µg/kg
Chlorobenzene	ND	1.0	µg/kg
Chloroform	ND	1.0	µg/kg
2-Chlorotoluene	ND	1.0	µg/kg
4-Chlorotoluene	ND	1.0	µg/kg
Dibromochloromethane	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg
Dibromomethane	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	1.0	µg/kg
1,1-Dichloroethane	ND	1.0	µg/kg
1,2-Dichloroethane	ND	1.0	µg/kg
1,1-Dichloroethene	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	1.0	µg/kg
1,2-Dichloropropane	ND	1.0	µg/kg
1,3-Dichloropropane	ND	1.0	µg/kg
2,2-Dichloropropane	ND	1.0	µg/kg
1,1-Dichloropropene	ND	1.0	µg/kg

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Colby Wakeman
Lab Director

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

Batch QC2511272 - EPA 8260

Method Blank 1

cis-1,3-Dichloropropene	ND	1.0	µg/kg							
trans-1,3-Dichloropropene	ND	1.0	µg/kg							
Ethylbenzene	ND	1.0	µg/kg							
Freon 11	ND	5.0	µg/kg							
Freon 12	ND	5.0	µg/kg							
Freon 113	ND	5.0	µg/kg							
Hexachlorobutadiene	ND	1.0	µg/kg							
Isopropylbenzene	ND	1.0	µg/kg							
4-Isopropyltoluene	ND	1.0	µg/kg							
Methylene chloride	ND	1.0	µg/kg							
Naphthalene	ND	5.0	µg/kg							
n-Propylbenzene	ND	1.0	µg/kg							
Styrene	ND	1.0	µg/kg							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg							
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg							
Tetrachloroethene	ND	1.0	µg/kg							
Toluene	ND	1.0	µg/kg							
1,2,3-Trichlorobenzene	ND	3.0	µg/kg							
1,2,4-Trichlorobenzene	ND	3.0	µg/kg							
1,1,1-Trichloroethane	ND	1.0	µg/kg							
1,1,2-Trichloroethane	ND	1.0	µg/kg							
Trichloroethene	ND	1.0	µg/kg							
1,2,3-Trichloropropane	ND	1.0	µg/kg							
1,2,4-Trimethylbenzene	ND	1.0	µg/kg							
1,3,5-Trimethylbenzene	ND	1.0	µg/kg							
Vinyl chloride	ND	1.0	µg/kg							
m+p-Xylene	ND	2.0	µg/kg							
o-Xylene	ND	1.0	µg/kg							
Methyl-tert-butylether	ND	5.0	µg/kg							
Ethyl-tert-butylether	ND	5.0	µg/kg							
Di-isopropylether	ND	5.0	µg/kg							
tert-amylmethylether	ND	5.0	µg/kg							
tert-Butylalcohol	ND	50.0	µg/kg							
Surrogate: Toluene-d8		97.51 %	60 - 140							
Surrogate: Dibromofluoromethane		101.69 %	60 - 140							
Surrogate: 4-Bromofluorobenzene		79.70 %	60 - 140							

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Verdantas, Inc.	Project:	Polytechnic High School Improve	
2600 Michelson Drive	Project Number:	036.0000038939	Reported
Irvine, CA 92612	Project Manager:	Jonathan Harrington	11/19/25 11:24

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- E Estimated Concentration; concentration exceeds calibration range.
- LCC Leak Check Compound
- MDL Compound Reported to Method Detection Limit
- 1 Recovery outside of acceptable limits. LCS/LCSD recoveries and %RSD were within QC limits, therefore data was accepted.
- SMSR Sample matrix prevented adequate surrogate recovery.
- J Value less than PQL but greater than MDL.
- HHSR High hydrocarbon concentration in this sample prevented adequate surrogate recovery.
- SMTAR Sample matrix prevented adequate recovery of target analytes.
- OV Sample was filtered in the lab before extraction.
- HHTAR High hydrocarbon concentration prevented in-range recovery of target analytes.
- IHRPD Target analyte recoveries were outside of range but accepted due to passing RPDs
- AROL Target analyte recovery exceeded recovery range but was accepted due to ND of that analyte in MB and sample(s).
- ISO-H Isomers could not be sufficiently chromatographically resolved according to method requirements due to hydrocarbon interference or other matrix effects. The isomers' reported individual concentrations were each calculated as the average of each of the individual isomers' concentrations.
- 2 Recovery outside of acceptable limits for either LCS or LCSD. CCV and LCS or LCSD recoveries were within limits; therefore data was accepted.
- 3 RPD outside of acceptable limits. Target analyte recoveries were within QC limits; therefore, data was accepted.
- 4 LCS and/or LCSD recoveries exceeded acceptability ranges. Target analyte recoveries were accepted due to passing CCV, in-range LCS/LCSD RPDs, and a clean MB in which all target analytes were < RL.
- 5 MS and/or MSD recoveries exceeded acceptability ranges. Target analyte recoveries were accepted due to passing CCV, in-range LCS/LCSD RPDs, and a clean MB in which all target analytes were < RL.
- SMTAR Sample matrix prevented adequate recovery of target analytes.
- RV Surrogate recovery outside of control limits due to required dilution.
- ASP Hydrocarbons in this sample most closely resemble asphalt.
- @ Surrogate is outside acceptable limits. All other QC parameters in control, therefore data was accepted.
- S Sample was subjected to elemental sulfur cleanup by EPA 3660B.
- TIC Tentatively Identified Compound. Compound is not in the calibration mix and does not have a valid calibration. All reported detections are estimated

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2600 Michelson Drive
Irvine, CA 92612Project: Polytechnic High School Improve
Project Number: 036.0000038939
Project Manager: Jonathan HarringtonReported
11/19/25 11:24

TH1 This sample was analyzed outside the recommended EPA holding time.

YP Associated CCV outside of control limits low.

IB CCV recovery above limit; analyte not detected

LO MS and/or MSD result unavailable. Batch accept. based on LCS rec.

YQ Associated CCV outside of control limits high.

GN Surrogate recovery is outside of control limits

LG Surrogate recovery below the acceptance limits.

LH Surrogate recovery above the acceptance limits.

AZ Surr. recovery outside of acceptance limits due to matrix interf.

HN Low concentration matrix spike recovery out of limits

HO High concentration matrix spike recovery out of limits

M A matrix effect is present.

LR LCS recovery below method control limits.

TW LCS recovery exceeds control limit.

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Lab Director

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Login Report

Customer Name: Verdantas, Inc.

Order ID: J254328

Purchase Order:

Order Date: 11/11/2025

Project ID: Polytechnic High School Improvements Project

Comment:

Sample #:	J254328-001	Customer Sample #:	PAAL-01-1.0	Site:	
Recv'd:	<input checked="" type="checkbox"/>	Collector:		Date Collected:	11/11/25 7:40 AM
Quantity:	1	Matrix:	Soil	Date Received:	11/11/25 10:52 AM
Comment:					
Test	Test Group	Method	Due Date	Priority	
TPHd TPHo		EPA 8015	11/19/2025		
6010	CAM-17	EPA 6010	11/19/2025		
CAM-17	CAM-17	N/A	11/19/2025		
Mercury, Hg	CAM-17	EPA 7471	11/19/2025		

Sample #:	J254328-003	Customer Sample #:	PAAL-02-1.0	Site:	
Recv'd:	<input checked="" type="checkbox"/>	Collector:		Date Collected:	11/11/25 9:15 AM
Quantity:	4	Matrix:	Soil	Date Received:	11/11/25 10:52 AM
Comment:					
Test	Test Group	Method	Due Date	Priority	
OCPs		EPA 8081	11/19/2025		
PCBs		EPA 8082	11/19/2025		
TPHd TPHo		EPA 8015	11/19/2025		
Volatile Organic Compounds		EPA 8260	11/19/2025		
6010	CAM-17	EPA 6010	11/19/2025		
CAM-17	CAM-17	N/A	11/19/2025		

Customer Name: Verdantas, Inc.

Order ID: J254328

Purchase Order:

Order Date: 11/11/2025

Project ID: Polytechnic High School Improvements Project

Comment:

Mercury, Hg CAM-17 EPA 7471 11/19/2025

Sample #: J254328-005 **Customer Sample #:** PAAL-03-1.0 **Site:**

Recv'd: ☒ **Collector:** **Date Collected:** 11/11/25 9:00 AM

Quantity: 1 **Matrix:** Soil **Date Received:** 11/11/25 10:52 AM

Comment:

Test	Test Group	Method	Due Date	Priority
TPHd TPHo		EPA 8015	11/19/2025	
6010	CAM-17	EPA 6010	11/19/2025	
CAM-17	CAM-17	N/A	11/19/2025	
Mercury, Hg	CAM-17	EPA 7471	11/19/2025	

Sample #: J254328-007 **Customer Sample #:** PAAL-04-1.0 **Site:**

Recv'd: ☒ **Collector:** **Date Collected:** 11/11/25 8:40 AM

Quantity: 4 **Matrix:** Soil **Date Received:** 11/11/25 10:52 AM

Comment:

Test	Test Group	Method	Due Date	Priority
OCPs		EPA 8081	11/19/2025	
PCBs		EPA 8082	11/19/2025	
TPHd TPHo		EPA 8015	11/19/2025	
Volatile Organic Compounds		EPA 8260	11/19/2025	
6010	CAM-17	EPA 6010	11/19/2025	
CAM-17	CAM-17	N/A	11/19/2025	
Mercury, Hg	CAM-17	EPA 7471	11/19/2025	

Sample #: J254328-009 **Customer Sample #:** PAAL-05-1.0 **Site:**

Recv'd: ☒ **Collector:** **Date Collected:** 11/11/25 8:18 AM

Quantity: 1 **Matrix:** Soil **Date Received:** 11/11/25 10:52 AM

Comment:

Test	Test Group	Method	Due Date	Priority
TPHd TPHo		EPA 8015	11/19/2025	
6010	CAM-17	EPA 6010	11/19/2025	
CAM-17	CAM-17	N/A	11/19/2025	
Mercury, Hg	CAM-17	EPA 7471	11/19/2025	

Customer Name: Verdantas, Inc.

Order ID: J254328

Purchase Order:

Order Date: 11/11/2025

Project ID: Polytechnic High School Improvements Project

Comment:

Sample #:	J254328-011	Customer Sample #:	PAAL-06-1.0	Site:	
Recv'd:	<input checked="" type="checkbox"/>	Collector:		Date Collected:	11/11/25 8:00 AM
Quantity:	4	Matrix:	Soil	Date Received:	11/11/25 10:52 AM

Comment:

Test	Test Group	Method	Due Date	Priority
OCPs		EPA 8081	11/19/2025	
PCBs		EPA 8082	11/19/2025	
TPHd TPHo		EPA 8015	11/19/2025	
Volatile Organic Compounds		EPA 8260	11/19/2025	
6010	CAM-17	EPA 6010	11/19/2025	
CAM-17	CAM-17	N/A	11/19/2025	
Mercury, Hg	CAM-17	EPA 7471	11/19/2025	

SAMPLE CONDITION RECORD

- | | |
|---|-----|
| 1. Are the samples within correct temperature criteria? (0 - 6°C) | Yes |
| 2. If not within temp. criteria, were samples received on ice? | N/A |
| 3. If not within temp. criteria, were samples received on same day of sampling? | N/A |
| 4. Is the Chain of Custody (COC) received filled out completely? | Yes |
| 5. Does the total number of containers received match COC? | Yes |
| 6. Are the sample container label(s) consistent with COC? | Yes |
| 7. Are the sample container(s) intact and in good condition? | Yes |
| 8. Were the proper containers & sufficient volume for analyses requested on COC? | Yes |
| 9. Was the proper preservative indicated on COC/container for analyses requested? | Yes |
| 10. Are the containers for volatile analysis free of headspace? (EPA 8260 water) | N/A |
| EDF Requested | No |

APPENDIX B

DATA VALIDATION CHECKLIST

