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May 20, 2023

RRM Project # IMK808

Heather Hanna

County of Santa Cruz Health Services Agency  
Environmental Health Division, Environmental Cleanup Program  
701 Ocean Street, Room 312  
Santa Cruz, CA 95060

Re: ***Supplemental Site Investigation Results***

Lower Main Meadow, Pogonip Open Space  
501 Golf Club Drive  
Santa Cruz, California 95060  
Geotracker Global ID T10000018646

Dear Ms. Hanna:

This letter, prepared by RRM, Inc. (RRM), on behalf of the City of Santa Cruz Parks and Recreation Department (the City), presents a work plan to conduct supplemental site and surface water investigation for the referenced site (Figure 1). The County of Santa Cruz Environmental Health Division (CSCEHD) requested preparation of this document in an August 30, 2022 letter; the letter was issued in response to the August 24, 2022 *Revised Additional Soil Investigation Report and Human Health Screening Evaluation* prepared for the site by RMD Environmental Solutions (RMD). A brief background is presented below, followed by a description of the proposed scope of work.

## BACKGROUND

The site is located in the Pogonip Open Space Preserve. The City leased approximately 9.5 acres in the lower meadow area of the preserve to the Homeless Garden Project (HGP), a non-profit organization, for conversion from recreational and natural open space to an agricultural and educational farm. While HPG was moving forward with the approved farm use, a historic skeet shooting use was discovered at the site and a November 19, 2019 *Phase I Environmental Site Assessment* identified the operation of a skeet and trap shooting range between the 1930s and 1950s with confirmed elevated lead and polycyclic aromatic hydrocarbons (PAHs) concentrations in shallow soil from shot and clay target deposition in soil.

A series of investigations completed from 2018 to 2022 found PAHs and select metals, primarily lead, in soil in proposed areas of use for the site. The investigations found the extent of other reported metals (antimony, arsenic, copper, and zinc) in soil to be delineated to the localized area of one soil sample in the west meadow (WM-DG-13-1.5') and do not constitute a significant release.

However, lead and PAHs have been identified as the contaminants of potential concern (COPCs) for the site, as elevated lead concentrations in soil have been reported in the west meadow, north orchard and east meadow areas; and elevated PAH concentrations in soil have been reported in the west meadow area (Figure 2). Attachment A includes figures with soil sample locations, and lead and PAH soil analytical data summarized in tables. Potential receptors for the site have been identified as unrestricted, commercial worker, recreational trail user, and unauthorized camper. Screening levels (SLs) for lead and PAHs in soil consistent with these receptors have been developed and are also presented in the tables in Attachment A.

Previous reports prepared for the site can be reviewed on the DTSC EnviroStor website (Database Number 60002874): [https://www.envirostor.dtsc.ca.gov/public/profile\\_report?global\\_id=60002874](https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60002874), and at the State Water Resources Control Board GeoTracker website (Global ID T10000018646): [https://geotracker.waterboards.ca.gov/profile\\_report?global\\_id=T10000018646](https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000018646).

Lead and PAHs associated with the historic shooting range activities have been identified and adequately delineated to the recreational trail user soil SLs. CSCEHD has required further delineation for lead and PAHs in areas where concentrations are above the unrestricted soil SLs and investigation of the seasonal surface water.

## SCOPE OF WORK

RMD identified the following areas where lead concentrations in soil are not delineated to unrestricted receptor use SLs:

- Emma McCrary Trail Area, southeast of Boring T-5 and southwest of Boring T-7
- West Meadow Area, west of Boring WM-17

RMD identified the following area where PAH concentrations in soil are not delineated to unrestricted receptor use SLs:

- West Meadow Area, east of Boring WM-C-11

The scope of work further characterized the extent of lead and PAH concentrations above unrestricted receptor use soil SLs in the areas identified above, collected soil analytical data for development of a preliminary profile for soil disposal, investigated the presence of surface water at the site, and provided a preliminary characterization of surface water flowing through the site.

## Pre-Field Activities

Prior to the start of work, RRM prepared a site-specific health and safety plan (SSHSP) for the proposed work; the SSHSP was reviewed and signed by all field personnel and kept on site for the duration of the project. All RRM personnel involved in conducting the field activities have satisfied the requirements of the Federal Occupational Safety and Health Administration (OSHA) 40-Hour Hazardous Waste Operations and Emergency Response Training.

### **Surface and Shallow Soil Sampling for Unrestricted Receptor Delineation**

To further characterize the extent of lead and PAH concentrations, soil samples were collected from hand auger borings advanced to a total depth of approximately 2 feet below ground surface (bgs). The lithology, moisture content, and color of the soil along with the presence of any shot fragments were noted at each boring location. Two soil samples were collected from each boring; one “surface” sample from approximately ground surface to 6 inches bgs and one “shallow” sample from approximately 1.5 to 2 feet bgs. Soil samples were obtained by advancing the auger to the target depths and a clean brass sleeve was driven to the target sample depth. The samples were labeled and stored in a chilled cooler for transportation under chain-of-custody procedures to a California-certified analytical laboratory. The sampling equipment was decontaminated between uses using non-phosphate detergent and clean water.

The boring locations for delineation are shown on Figure 2 and described below with the laboratory analysis for the soil samples from each area.

- RRM-1 through RRM-3 - West Meadow Area, west of Sample Location WM-17: Three borings to the northwest, west, and southwest of WM-17; soil samples were analyzed for lead on a dry weight basis using EPA Method 6020.
- RRM-4 through RRM-6 - West Meadow Area, east of Sample Location WM-C-11: Three borings to the northeast, east, and southeast of WM-C-11; soil samples were analyzed for PAHs using EPA Method 8270C SIM.
- RRM-7 through RRM-9 - Emma McCrary Trail Area, southwest of Sample Location T-7: Three borings to the south, southwest, and west of T-7; soil samples were analyzed for lead on a dry weight basis using EPA Method 6020.
- RRM-10 through RRM-12 - Emma McCrary Trail Area, southeast of Sample Location T-5: Three borings to the southeast, south and southwest of T-5; soil samples were analyzed for lead on a dry weight basis using EPA Method 6020.

### **Soil Sampling for Soil Disposal Profiling**

To develop a preliminary soil disposal profile, soil samples were collected from hand auger borings advanced to a total depth of approximately 2 feet bgs. Two soil samples were collected from each boring; one sample from approximately ground surface to 6 inches bgs and one sample from approximately 1.5 to 2 feet bgs. Soil samples were obtained from each boring as described above.

The boring locations for soil disposal profiling are shown on Figure 2. The analytical data from the borings are intended to characterize the highest concentrations of lead in soil for the removal area where they are located. For each area described below four borings were advanced; the samples from approximately 0-6 inches bgs were composited into one sample and the samples from approximately 1.5-2 feet bgs were composited into one sample. The composite samples were analyzed for CAM 17 metals using EPA Methods 6010B/7471A and STLC analysis for lead.

- East Meadow Area, in the vicinity of sample locations EM-7 through EM-11 and EM-21
- North Orchard Area, in the vicinity of sample locations NO-1, NO-3, WM-C-3, and WM-C-4

- West Meadow Area, in the vicinity of sample location WM-DG-13
- West Meadow Area, in the vicinity of sample locations B1E, B1N, WM-C-1, and WM-DG-1

### **Surface Water Investigation and Sampling**

Seasonal wetlands occur where water saturates the ground for varying periods of time during the year and can be dry outside of the wet season. A potential 0.08-acre seasonal wetland has been identified in the northern portion of the west meadow.

For investigation and surface water sampling, the wetland was visited at a time during the wet season when surface water is most likely to be present. During several visits in March 2023, after two months of exceptional rainfall and immediately after storms, there was no visible standing water in the area identified as a potential wetland. There were no depressions or surface features that would allow standing water to accumulate observed within the area. Since standing water was not present, a soil sample was collected from 0-6 inches bgs in accordance with the methods described above and analyzed for CAM 17 metals using EPA Methods 6010B/7471A and PAHs using EPA Method 8270C SIM

### **Stream Sampling**

A seasonal stream is intermittently present within the ravine area and flows generally west to east across the site. Grab samples of the surface water were collected from three accessible areas of the stream. A clean intermediate container was used to fill the sample containers. The intermediate container was lowered beneath the water surface and allowed to fill, avoiding surface debris and minimizing agitation. The filled intermediate container was then used to fill the sample containers. Surface water samples were analyzed for dissolved metals using EPA Method 6010B/7471A and PAHs using EPA Method 8270C SIM.

## **RESULTS**

### **Surface and Shallow Soil Delineation**

Surface and shallow soil results for lead are included in Table 1; sample locations are shown on Figure 2; certified analytical reports are included in Attachment B.

West Meadow Area: The area to the west of WM-17 was characterized by samples from RRM-1 through RRM-3. The maximum detection of lead in surficial/shallow samples was 25 mk/kg and the maximum concentration of lead in deeper samples was 6.7 mg/kg. All detections were below the unrestricted SL of 80 mg/kg.

West Meadow Area: The area east of Sample Location WM-C-11 was characterized by samples from RRM-4 through RRM-6. The maximum detection of lead in surficial/shallow samples was 38 mk/kg and the maximum concentration of lead in deeper samples was 8.3 mg/kg. All detections were below the unrestricted SL of 80 mg/kg.

Emma McCrary Trail Area: The area southwest of Sample Location T-7 was characterized by samples from RRM-7 through RRM-9. Lead was detected in shallow soil at concentrations of 160

mg/kg, 45 mg/kg, and 120 mg/kg. Lead was detected in deeper soil samples at concentrations of 8.2 mg/kg and 16 mg/kg. A deeper sample was not obtained at RRM-9 due the presence of water. Only the shallow samples from RRM-7 and RRM-9 exceed the unrestricted soil SL, but were lower than the commercial worker and trail use SLs. Both deeper samples were below the unrestricted use SL.

Emma McCrary Trail Area: The area southeast of Sample Location T-5 was characterized by samples RRM-10 through RRM-12. Lead was detected above the unrestricted use SL, but below the commercial worker and trail use SLs, at concentrations of 190 mg/kg/ 160 mg/kg, and 130 mg/kg, respectively. Lead was detected in the deeper samples at a maximum concentration of 36 mg/kg, below all SLs.

### **Wetland Sediment Sampling**

Wetland sediment sampling results are included in Table 2; sample locations are shown on Figure 2; certified analytical reports are included in Attachment B.

The sediment sample collected from 0-0.5 ft bgs in the wetlands area contained lead at a concentration of 51 mg/kg, below all site SLs. The only metal detected above site SLs was arsenic at a concentration of 2.8 mg/kg (the unrestricted use and commercial worker SLs are 0.11 and 0.36 mg/kg, respectively). While the arsenic concentration is above the SLs, it is within published regional values for background arsenic concentrations.<sup>1</sup>

The sample was also analyzed for PAHs. The only PAH detected above the unrestricted SL was Dibenzo[a,h]anthracene at a concentration of 0.075 mg/kg which is below the commercial worker SL of 0.31 mg/kg and the trail use SL of 1 mg/kg. All PAH detection limits were lower than the unrestricted use SL.

### **Ravine Water Sampling**

Ravine water sampling results are included in Table 3; sample locations are shown on Figure 2; certified analytical reports are included in Attachment B.

Water was observed flowing through a perennial stream within the ravine during the sampling period. Surface water appeared to begin several yards west of RV-1, flow generally west to east through the ravine, and flow into another perennial stream flowing south to north along the eastern property boundary. Sample RV-1 was located at the western edge of the ravine where surface water was first apparent, RV-2 was located within the ravine, and RV-3 was located at the western edge of the ravine where it crosses Emma McCrary trail. Concentrations were compared to California maximum contaminant levels (MCLs) and the aquatic habitat environmental screening level (ESL).<sup>2</sup>

Lead was detected in samples RV-1 through RV-3 at concentrations of 10, 20, and 16 ug/l, respectively. These are all above the aquatic habitat ESL of 2.5 ug/l, and two of the samples are above the MCL of 15 ug/l. While concentrations vary between the three samples, they are generally low and there is no discernable gradient as water moves through the ravine.

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<sup>1</sup> Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, *Background Concentrations of Trace and Major Elements in California Soils*, March 1996

<sup>2</sup> San Francisco Bay Regional Water Quality Control Board, *Environmental Screening Levels*, January 2019.

Cadmium and mercury were also detected above the aquatic habitat ESL (but not the MCL). Cadmium was detected above the ESL at concentrations of 0.25 and 0.53 ug/l from RV-2 and RV-3, respectively. Mercury was detected above the ESL at a concentration of 0.15 ug/l at RV-1. Cadmium and Mercury are not previously identified contaminants of potential concern (COPC)<sup>3</sup> and do not appear related to historical uses at the site.

### **Soil Disposal Profile Sampling**

Composite soil samples were collected from four areas of the site as described in the previous section. Soil disposal profiling sampling results are included in Table 4; sample locations are shown on Figure 2; certified analytical reports are included in Attachment B. Composite sample results were generally consistent with historical results from the respective areas but were not compared to any SLs. The composite samples are intended only for future remediation planning use.

## **CONCLUSIONS AND RECOMMENDATIONS**

Based on results of this and previous investigations:

- The West Meadow, North Orchard, and East Meadow areas are all delineated to below the unrestricted use SL. No further investigation is necessary.
- The Emma McCrary trail area is not delineated to unrestricted use. However, this area is slated for permanent trail and open space use and is delineated to well below trail user and commercial worker SLs, so no further delineation is necessary.
- Arsenic is present in the wetlands soil sample above screening levels, but the concentration is consistent with regional and State-wide background concentrations.
- Lead is present in all three ravine water samples and is likely the result of drainage from the West Meadow, North Orchard, and East Meadow areas.
- Cadmium and mercury, while detected in ravine water samples, are not CPOCs for the site and is likely the result of leaching from naturally occurring deposits.
- Future remediation will significantly reduce the amount of potentially contaminated runoff flowing into the ravine and will improve stream water quality. Water in the ravine area should be resampled once the remediation efforts are complete.

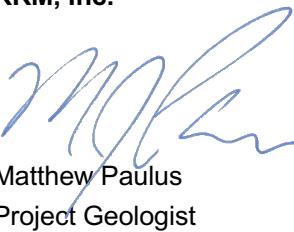
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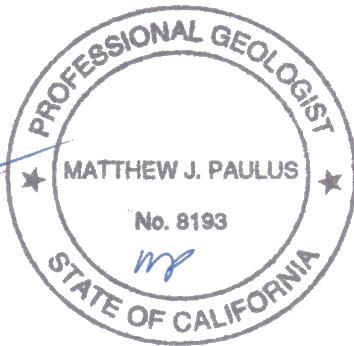
<sup>3</sup> RMD Environmental Solutions, *Revised Additional Soil Investigation Report and Human Health Screening Evaluation*, August 2022

Should you have any questions regarding the contents of this document, please call RRM at (831) 475-8141.

Sincerely,

**RRM, Inc.**

  
Matthew Paulus  
Project Geologist  
PG 8193



Attachments:

- Table 1 Soil Sample Results - Lead
- Table 2 Wetlands Area Sediment Sample Results
- Table 3 Ravine Surface Water Sample Results
- Table 4 Soil Profile Sample Results

Figure 1 Site Location Map

Figure 2 Extended Site Map

Attachment A Previous Soil Analytical Tables

Attachment B Certified Analytical Reports and Field Data

**Table 1**  
**Soil Sample Results**

Pogonip Farm and Garden  
Santa Cruz, California

<b>Sample</b>	<b>Date</b>	<b>Depth ft bgs</b>	<b>Lead (TTLC) mg/kg</b>
RRM-1	3/3/23	0.5	10
		2	6.0
RRM-2	3/3/23	0.5	25
		2	6.7
RRM-3	3/3/23	0.5	21
		2	4.4
RRM-4	3/3/23	0.5	20
		2	5.2
RRM-5	3/3/23	0.5	38
		2	7.9
RRM-6	3/3/23	0.5	38
		2	8.3
RRM-7	3/3/23	0.5	160
		2	8.2
RRM-8	3/3/23	0.5	45
		2	16
RRM-9	3/3/23	0.5	160
		2	na
(Duplicate)	3/3/23	0.5	190
		2	7.1
		2	23
RRM-11	3/3/23	0.5	160
		2	36
RRM-12	3/3/23	0.5	130
		2	6.5

<b>Screening Levels:</b>	
Unrestricted	80
Commercial Worker	320
Recreational Trail User	540

TTLC      Total Threshold Limit Concentration

ft bgs      feet below ground surface

mg/kg      milligrams per kilogram

\* all sample results reported on a dry weight basis

exceeds unrestricted use screening level

Table 2  
Wetlands Area Sediment Sample Results

Pogonip Farm and Garden  
Santa Cruz, California

	WTL-1	Screening Levels		
		Unrestricted	Commercial Worker	Recreational Trail User
<b>CAM17 Metals, mg/kg</b>		31 0.11 -- -- -- -- -- -- 3,100 80 -- -- -- -- -- -- 23,000	470 0.36 -- -- -- -- -- -- 47,000 320 -- -- -- -- -- -- 350,000	-- -- -- -- -- -- -- -- --
<b>PAHs, mg/kg</b>		3,300 -- 17,000 1.1 1.1 11 0.11 -- 110 0.028 2,400 2,300 1.1 2.0 -- 1,800	23,000 -- 130,000 12 13 130 13 -- 1,300 0.31 18,000 17,000 13 6.5 -- 13,000	23,000 -- 120,000 45 45 450 5 -- 4,500 1 -- 15,000 45 34 -- 12,000

ft bgs feet below ground surface

mg/kg milligrams per kilogram

\* all sample results reported on a dry weight basis

██████████ exceeds unrestricted use screening level

**Table 3**  
Ravine Surface Water Sample Results

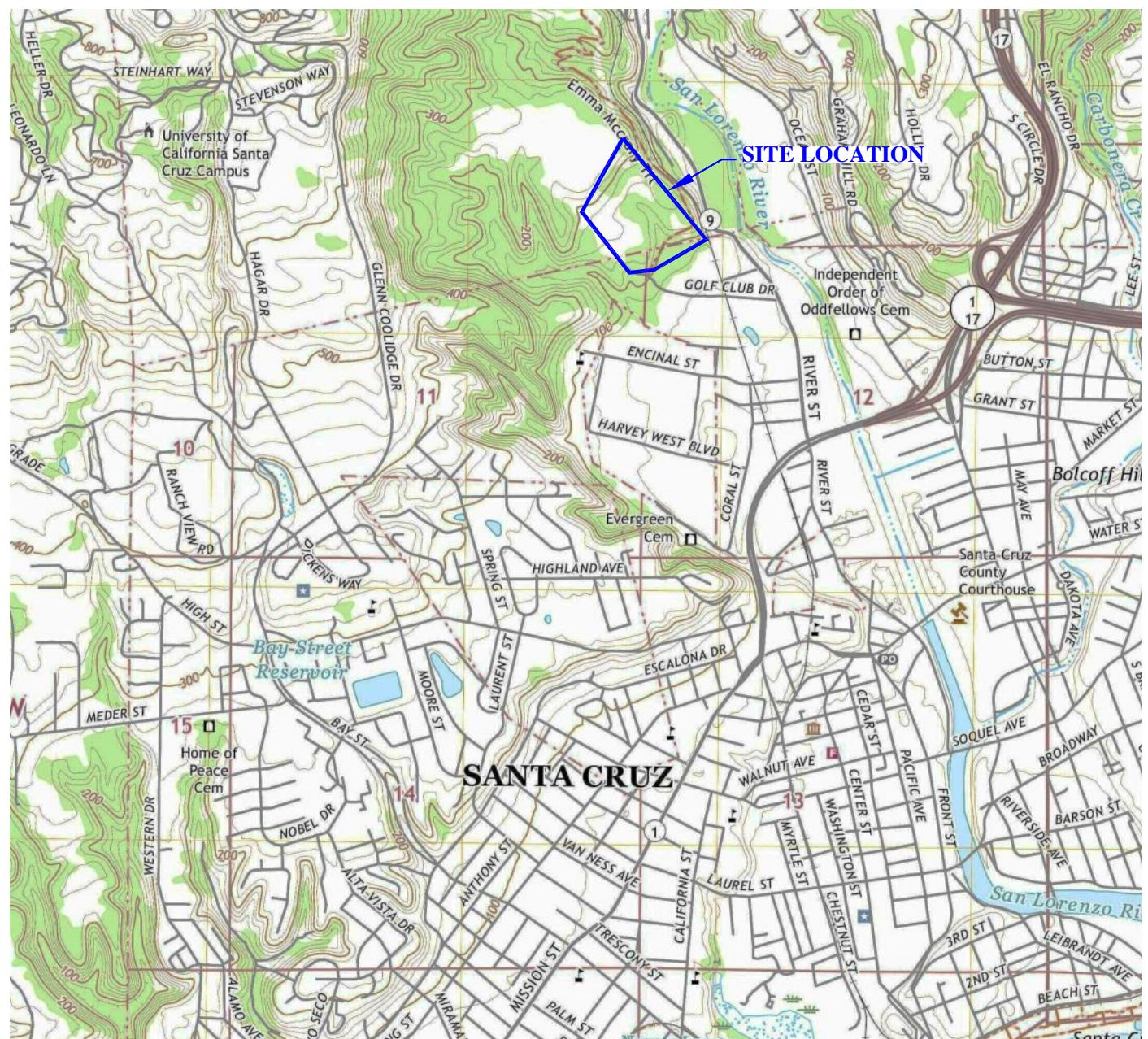
Pogonip Farm and Garden  
Santa Cruz, California

Sample: Date:	RV-1 3/3/23	RV-2 3/3/23	RV-3 3/3/23	Screening Levels	
				MCL Priority	Aquatic Habitat
<b>CAM17 Metals, ug/L (Dissolved)</b>					
Antimony	1.6	2.6	2.3	6.0	30.0
Arsenic	0.69	0.66	0.83	10	150
Barium	33	29	32	1,000	--
Beryllium	0.062	0.073	0.062	4.0	2.7
Cadmium	0.099	0.25	0.53	5.0	0.25
Chromium	0.71	0.56	0.62	50	180
Cobalt	0.18	0.17	1.0	6.0	3.0
Copper	1.6	1.9	2.1	1,000	9
Lead	10	20	16	15	2.5
Mercury	0.15	<0.022	<0.022	2.0	0.0250
Molybdenum	0.041	0.042	<0.033	100	240
Nickel	1.2	1.1	1.2	100	52
Selenium	<1.2	<1.2	<1.2	50	5
Silver	<0.015	<0.015	<0.015	100	3.4
Thallium	<0.025	<0.025	<0.025	2.0	20
Vanadium	0.93	0.95	0.91	--	--
Zinc	8.2	8.2	20	5,000	81
<b>PAHs, ug/L</b>					
Acenaphthene	<0.016	<0.016	<0.016	530	23
Acenaphthylene	<0.018	<0.018	<0.018	--	--
Anthracene	<0.045	<0.045	<0.045	1,800	0.73
Benzo[a]anthracene	<0.020	<0.020	<0.020	0.017	0.027
Benzo[b]fluoranthene	<0.040	<0.040	<0.040	0.25	15
Benzo[k]fluoranthene	<0.044	<0.044	<0.044	2.5	3.7
Benzo[a]pyrene	<0.032	<0.032	<0.032	0.2	0.014
Benzo[g,h,i]perylene	<0.048	<0.048	<0.048	--	--
Chrysene	<0.017	<0.017	<0.017	25	0.35
benzo[a,h]anthracene	<0.031	<0.031	<0.031	0.025	7.5
Fluoranthene	<0.019	<0.019	<0.019	800	8.1
Fluorene	<0.019	<0.019	<0.019	290	3.9
Indeno[1,2,3-cd]pyrene	<0.025	<0.025	<0.025	0.25	--
Naphthalene	<0.016	<0.016	<0.016	0.71	24
Phenanthrene	<0.017	<0.017	<0.017	--	6.3
Pyrene	<0.024	<0.024	<0.024	120	2.0

Table 4  
Soil Profile Sample Results

Pogonip Farm and Garden  
Santa Cruz, California

Sample:	Composite LSP-1, LSP-2, LSP-3, LSP-4	Composite LSP-1, LSP-2, LSP-3, LSP-4	Composite LSP-5, LSP-6, LSP-7, LSP-8	Composite LSP-5, LSP-6, LSP-7, LSP-8	Composite LSP-9, LSP-10, LSP-11, LSP-12	Composite LSP-9, LSP-10, LSP-11, LSP-12	Composite LSP-13, LSP-14, LSP-15, LSP-16	Composite LSP-13, LSP-14, LSP-15, LSP-16
Date:	3/8/23	3/8/23	3/8/23	3/8/23	3/8/23	3/8/23	3/8/23	3/8/23
Depth:	0.5 ft bgs	2.0 ft bgs	0.5 ft bgs	2.0 ft bgs	0.5 ft bgs	2.0 ft bgs	0.5 ft bgs	2.0 ft bgs
<b>Lead Analysis</b>								
Total Lead, mg/kg	170	10	43	6.2	520	240	210	7.8
STLC, mg/L	8.7	-	-	-	24	10	8.4	na
TCLP, mg/l	0.62	-	-	-	1.3	3.8	0.83	na
<b>CAM17 Metals, mg/kg</b>								
Antimony	0.48	<0.44	0.53	0.49	2.7	2	1.1	0.69
Arsenic	3.3	2.8	3.1	3.4	7.1	6.5	3.2	4.3
Barium	81	93	88	84	140	150	95	84
Beryllium	0.41	0.52	0.32	0.37	0.55	0.59	0.43	0.49
Cadmium	<0.066	<0.070	0.08	<0.062	<0.062	<0.063	<0.064	<0.065
Chromium	12	13	15	16	22	21	10	15
Cobalt	5.1	5.9	2.9	2.7	8	7.9	3.3	3.5
Copper	4.9	4.7	7.2	3.8	7.3	7	4.1	4.1
Lead	170	10	43	6.2	520	240	210	7.8
Mercury	0.49	0.04	0.21	0.11	0.026	0.033	<0.020	<0.020
Molybdenum	<0.063	<0.067	<0.061	<0.060	<0.060	<0.060	0.23	<0.062
Nickel	5.3	5.8	6.5	7	12	13	4.2	6.1
Selenium	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Silver	<0.084	<0.090	<0.081	<0.080	<0.080	<0.081	<0.083	<0.084
Thallium	<0.81	<0.86	<0.78	<0.76	<0.77	<0.77	<0.79	<0.80
Vanadium	18	20	16	20	32	30	16	22
Zinc	38	35	35	20	28	27	15	20
<b>PAHs, mg/kg</b>								
Acenaphthene	-	-	0.078	<0.0016	-	-	-	-
Acenaphthylene	-	-	<0.0022	<0.0011	-	-	-	-
Anthracene	-	-	0.12	<0.00097	-	-	-	-
Benzo[a]anthracene	-	-	0.53	<0.011	-	-	-	-
Benzo[b]fluoranthene	-	-	1	<0.00094	-	-	-	-
Benzo[k]fluoranthene	-	-	0.13	<0.0013	-	-	-	-
Benzo[a]pyrene	-	-	1	<0.00093	-	-	-	-
Benzo[g,h,i]perylene	-	-	0.97	<0.00086	-	-	-	-
Chrysene	-	-	0.57	<0.0013	-	-	-	-
benzo[a,h]anthracene	-	-	0.38	<0.00057	-	-	-	-
Fluoranthene	-	-	0.43	<0.00089	-	-	-	-
Fluorene	-	-	0.007	<0.0012	-	-	-	-
Indeno[1,2,3-cd]pyrene	-	-	0.96	<0.00056	-	-	-	-
Naphthalene	-	-	0.0036	<0.0011	-	-	-	-
Phenanthrene	-	-	0.099	<0.0010	-	-	-	-
Pyrene	-	-	0.47	<0.0014	-	-	-	-



N

SCALE IN FEET



Ref. IMK808/IMK808-SLM.dwg  
Base Map from USGS

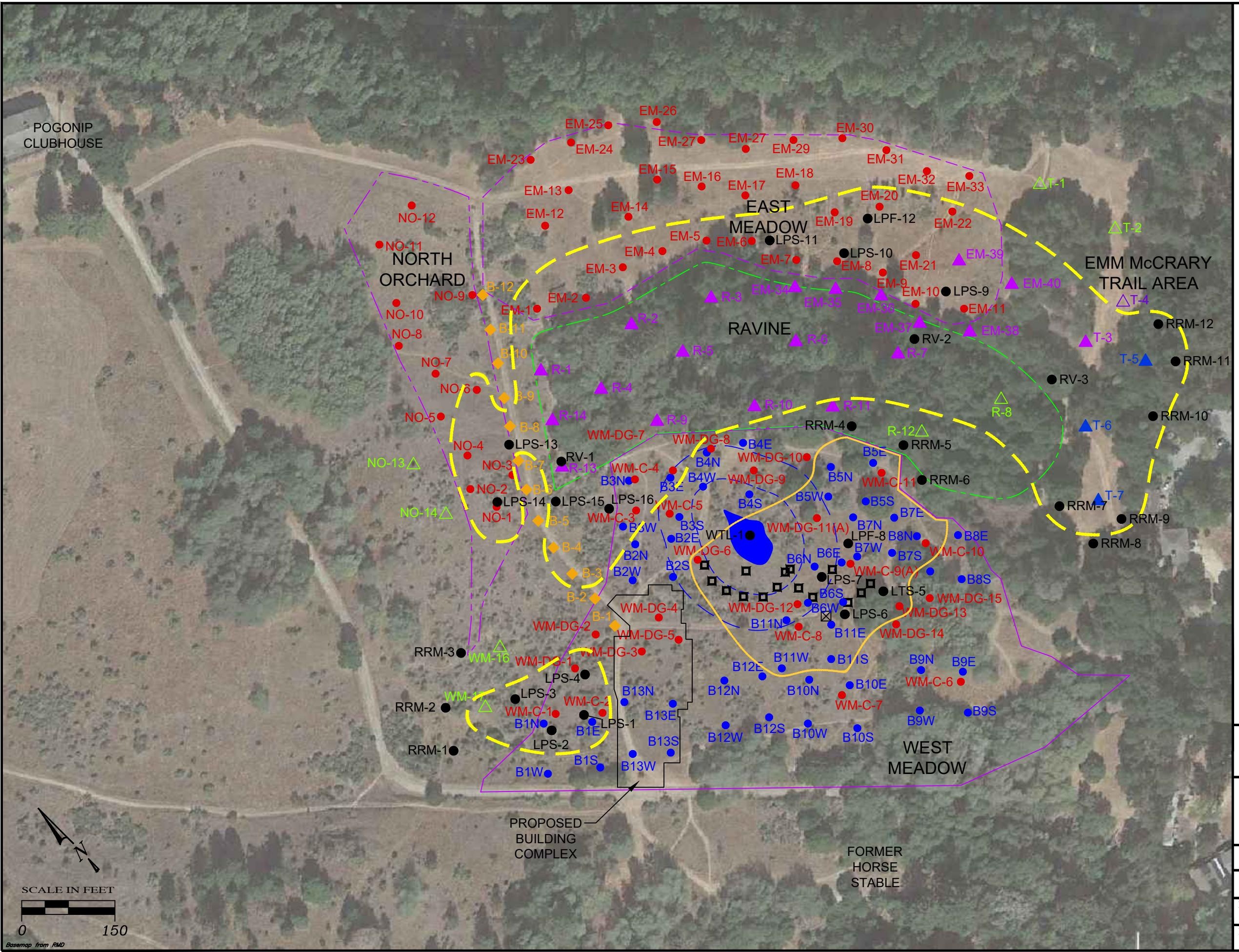


### SITE LOCATION MAP

#### LOWER MAIN MEADOW, POGONIP OPEN SPACE

501 Golf Club Drive  
Santa Cruz, California

FIGURE:  
**1**  
PROJECT:  
IMK808



LEGEND	
	PROPOSED EAST MEADOW BOUNDARY
	PROPOSED WEST MEADOW BOUNDARY
	PROPOSED NORTH ORCHARD BOUNDARY
	APPROXIMATE RAVINE AREA
	50' WETLAND BUFFER (NO PLANTING)
	100' WETLAND BUFFER (NO PLANTING)
<span style="background-color: blue; display: inline-block; width: 15px; height: 15px;"></span>	APPROXIMATE LOCATION OF SEASONAL WETLAND
<span style="border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	SHOOTING PAD LOCATION
<span style="border: 1px solid black; display: inline-block; width: 15px; height: 15px;">■</span>	UNKNOWN CONCRETE PAD
<span style="color: red;">●</span>	SOIL SAMPLE LOCATION (EIS, 2019)
<span style="color: red;">●</span>	SOIL SAMPLE LOCATION (RMD, 2020)
<span style="color: orange;">◆</span>	SOIL SAMPLE LOCATION (WHA, 2021)
<span style="color: purple;">▲</span>	SOIL SAMPLE LOCATION (RMD, 2021)
<span style="color: green;">△</span>	SOIL SAMPLE LOCATION (WHA, 2021)
<span style="color: blue;">△</span>	SOIL SAMPLE LOCATION (RMD, 2021)
<span style="color: black;">●</span>	SOIL SAMPLE LOCATION (RRM, 2023)
<span style="color: blue;">▲</span>	X-RAY FLUORESCENCE
<span style="color: yellow;">○</span>	APPROXIMATE AREA EXCEEDING LEAD SCREENING LEVEL FOR UNRESTRICTED LAND USE
<span style="color: orange;">○</span>	APPROXIMATE AREA EXCEEDING POLYCYCLIC AROMATIC HYDROCARBON SCREENING LEVELS FOR UNRESTRICTED LAND USE

**EXTENDED SITE MAP with BORING LOCATIONS for UNRESTRICTED RECEPTOR DELINEATION**

**Lower Main Meadow, Pogonip Open Space**

501 Golf Club Drive  
Santa Cruz, California

**FIGURE: 2**

PROJECT No.: IMK808  
FILENAME: IM808\_EXTENDEDx150.DWG  
DRAWN BY: J. YEARWOOD

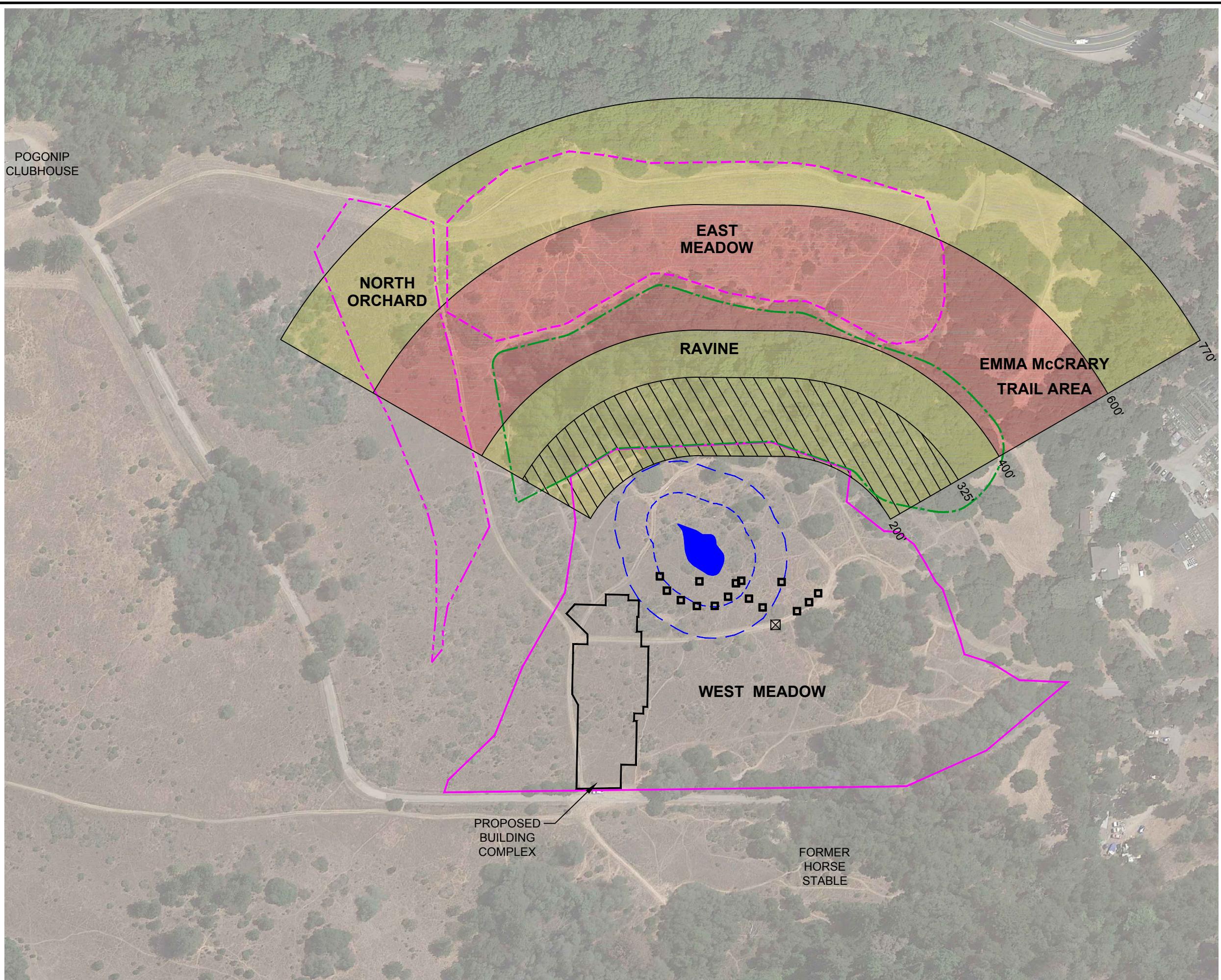


# A

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## **PREVIOUS FIGURES AND ANALYTICAL DATA TABLES**

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LEGEND	
	PROPOSED EAST MEADOW BOUNDARY
	PROPOSED WEST MEADOW BOUNDARY
	PROPOSED NORTH ORCHARD BOUNDARY
	APPROXIMATE RAVINE AREA
	50' WETLAND BUFFER (NO PLANTING)
	100' WETLAND BUFFER (NATIVE PLANTS)
	APPROXIMATE LOCATION OF SEASONAL WETLAND
	HYPOTHETICAL RANGE OF LEAD SHOT (~200'-770')
	HYPOTHETICAL RANGE OF HIGHEST LEAD SHOT CONCENTRATION (~400'-600')
	HYPOTHETICAL RANGE OF CLAY TARGETS (~200'-325')
	SHOOTING PAD LOCATION
	UNKNOWN CONCRETE PAD

Notes:

- 1) Hypothetical Ranges of Lead Shot and Clay Pigeons Are Based On Standard Skeet Shooting Range Shot Fall Zones. (ITRC, 2015)
- 2) Proposed Garden Boundaries and Building Complex Based on GPS Coordinate Plan (Fall Creek Engineering, Inc, 2018) and Map of Pogonip Farm & Garden (Homeless Garden Project O&M Plan, 2017)

## SITE PLAN

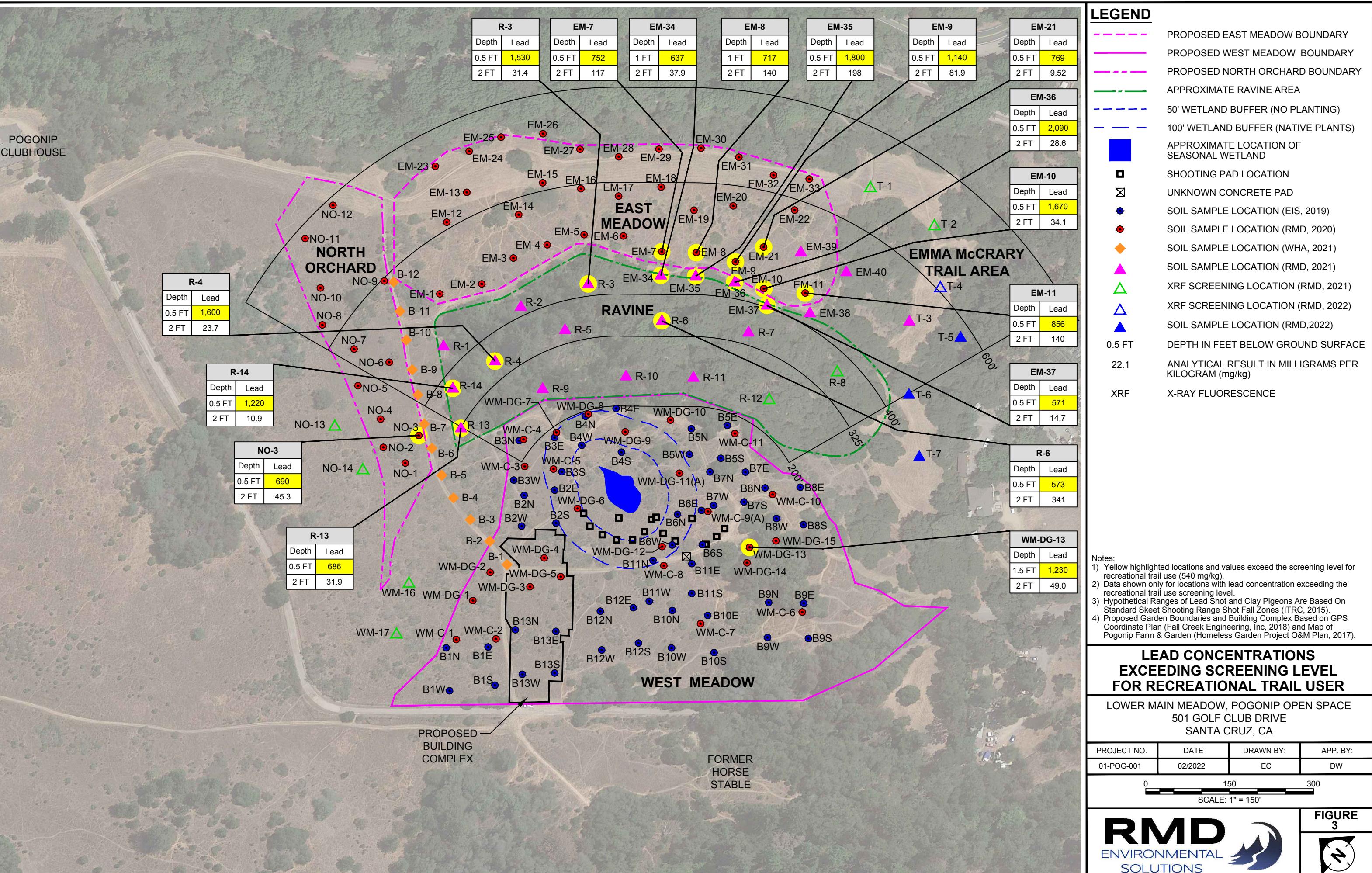
LOWER MAIN MEADOW, POGONIP OPEN SPACE  
501 GOLF CLUB DRIVE  
SANTA CRUZ, CA

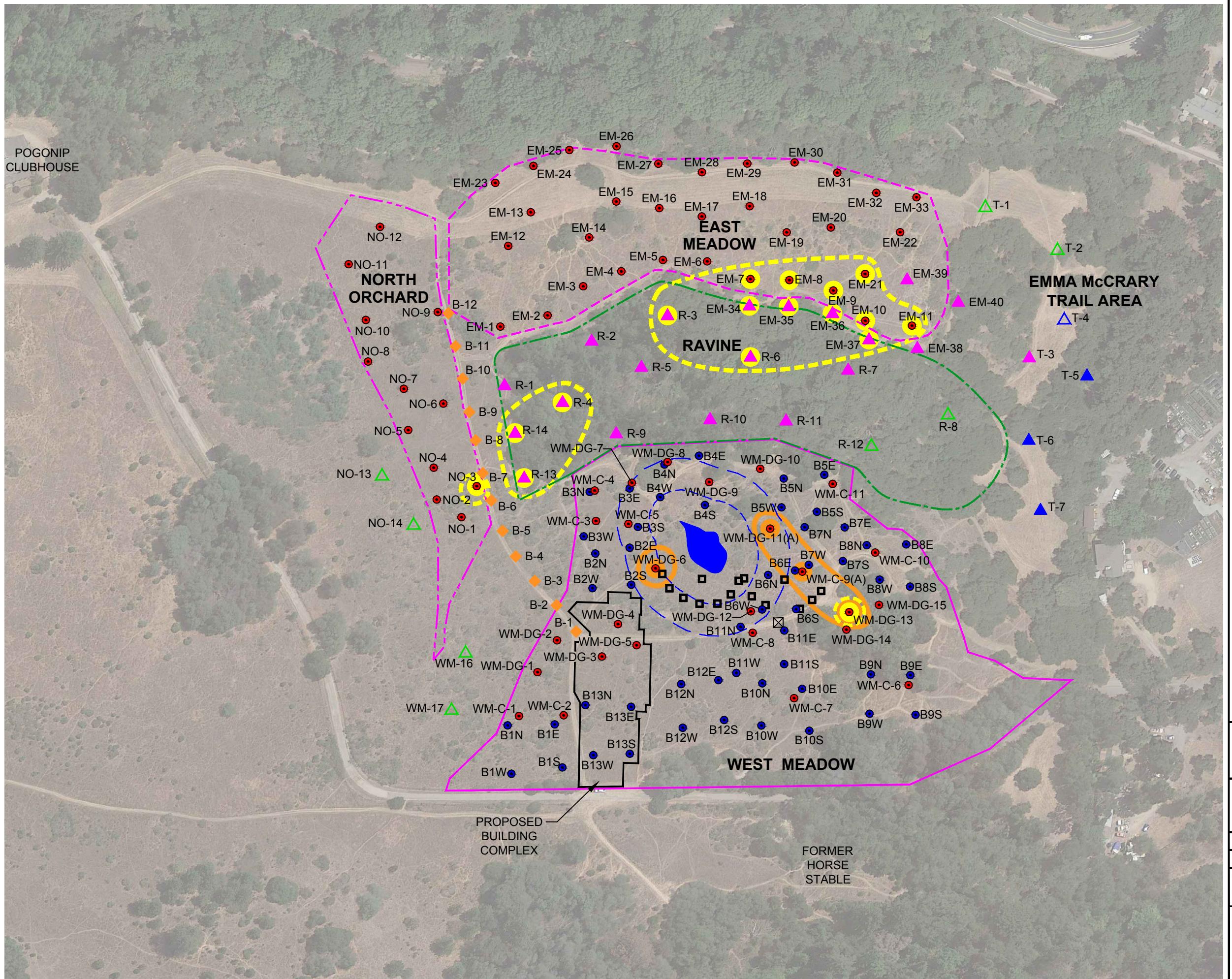
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-POG-001	10/2021	EC	DW

0 150 300

SCALE: 1" = 150'







LEGEND	PROPOSED EAST MEADOW BOUNDARY
	PROPOSED WEST MEADOW BOUNDARY
	PROPOSED NORTH ORCHARD BOUNDARY
	APPROXIMATE RAVINE AREA
	50' WETLAND BUFFER (NO PLANTING)
	100' WETLAND BUFFER (NATIVE PLANTS)
<span style="background-color: blue; display: inline-block; width: 15px; height: 15px;"></span>	APPROXIMATE LOCATION OF SEASONAL WETLAND
<span style="border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	SHOOTING PAD LOCATION
<span style="display: inline-block; width: 15px; height: 15px;"></span>	UNKNOWN CONCRETE PAD
<span style="color: blue;">●</span>	SOIL SAMPLE LOCATION (EIS, 2019)
<span style="color: red;">●</span>	SOIL SAMPLE LOCATION (RMD, 2020)
<span style="color: orange;">◆</span>	SOIL SAMPLE LOCATION (WHA, 2021)
<span style="color: magenta;">▲</span>	SOIL SAMPLE LOCATION (RMD, 2021)
<span style="color: green;">△</span>	XRF SCREENING LOCATION (RMD, 2021)
<span style="color: blue;">△</span>	XRF SCREENING LOCATION (RMD, 2022)
<span style="color: blue;">▲</span>	SOIL SAMPLE LOCATION (RMD, 2022)
<span style="color: blue;">▲</span>	XRF
<span style="border: 2px dashed yellow; border-radius: 50%; display: inline-block; width: 15px; height: 15px;"></span>	APPROXIMATE AREA EXCEEDING LEAD SCREENING LEVEL FOR RECREATIONAL TRAIL USE
<span style="border: 2px dashed orange; border-radius: 50%; display: inline-block; width: 15px; height: 15px;"></span>	APPROXIMATE AREA EXCEEDING POLYCYCLIC AROMATIC HYDROCARBON SCREENING LEVELS FOR RECREATIONAL TRAIL USE

Notes:

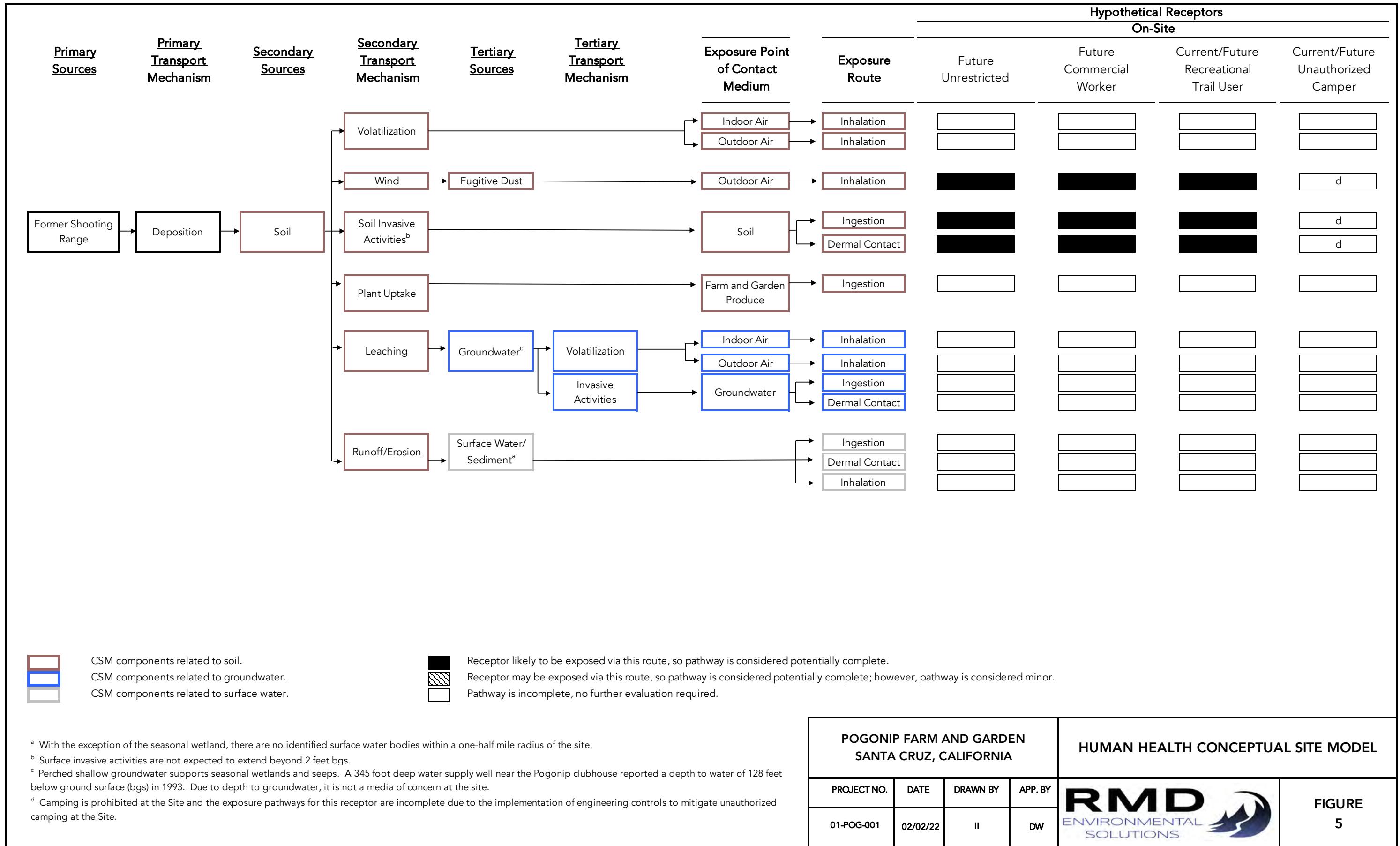
- 1) Hypothetical Ranges of Lead Shot and Clay Pigeons Are Based On Standard Skeet Shooting Range Shot Fall Zones (ITRC, 2015).
- 2) Proposed Garden Boundaries and Building Complex Based on GPS Coordinate Plan (Fall Creek Engineering, Inc, 2018) and Map of Pogonip Farm & Garden (Homeless Garden Project O&M Plan, 2017).

#### AREAS EXCEEDING SCREENING LEVEL FOR RECREATIONAL TRAIL USE

LOWER MAIN MEADOW, POGONIP OPEN SPACE  
501 GOLF CLUB DRIVE  
SANTA CRUZ, CA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-POG-001	01/2022	EC	DW

0 150 300  
SCALE: 1" = 150'



POGONIP FARM AND GARDEN  
SANTA CRUZ, CALIFORNIA

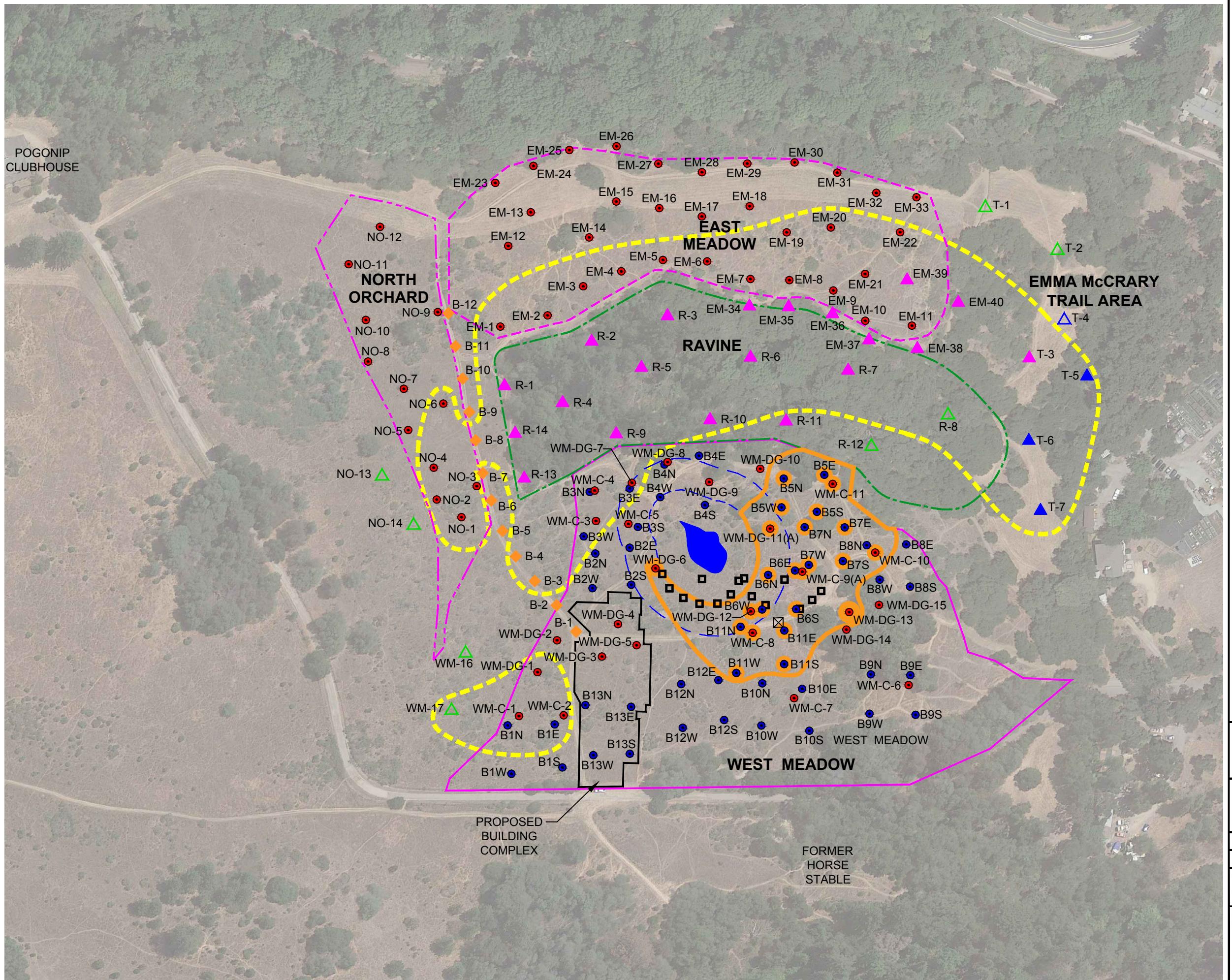
HUMAN HEALTH CONCEPTUAL SITE MODEL

PROJECT NO. DATE DRAWN BY APP. BY

01-POG-001 02/02/22 II DW



FIGURE  
5



## LEGEND

- PROPOSED EAST MEADOW BOUNDARY
- PROPOSED WEST MEADOW BOUNDARY
- PROPOSED NORTH ORCHARD BOUNDARY
- APPROXIMATE RAVINE AREA
- 50' WETLAND BUFFER (NO PLANTING)
- 100' WETLAND BUFFER (NATIVE PLANTS)
- APPROXIMATE LOCATION OF SEASONAL WETLAND
- SHOOTING PAD LOCATION
- UNKNOWN CONCRETE PAD
- SOIL SAMPLE LOCATION (EIS, 2019)
- SOIL SAMPLE LOCATION (RMD, 2020)
- SOIL SAMPLE LOCATION (WHA, 2021)
- XRF SCREENING LOCATION (RMD, 2021)
- XRF SCREENING LOCATION (RMD, 2022)
- XRF SCREENING LOCATION (RMD, 2022)
- XRF
- APPROXIMATE AREA EXCEEDING LEAD SCREENING LEVEL FOR UNRESTRICTED LAND USE
- APPROXIMATE AREA EXCEEDING POLYCYCLIC AROMATIC HYDROCARBON SCREENING LEVELS FOR UNRESTRICTED LAND USE

### Notes:

- Yellow highlighted sample locations exceed the lead screening level for unrestricted land use.
- Orange highlighted sample locations exceed the polycyclic aromatic hydrocarbon screening levels for unrestricted land use.
- Sample location WM-DG-13 also reports antimony, arsenic, copper, and zinc exceeding screening levels for unrestricted land use.
- Shot fragments observed at locations WM-DG-11(A) and WM-DG-13.
- Clay target fragments observed at locations WM-C-9(A), WM-DG-11(A), WM-DG-13, and EM-10.
- Proposed Garden Boundaries and Building Complex Based on GPS Coordinate Plan (Fall Creek Engineering, Inc., 2018) and Map of Pogonip Farm & Garden (Homeless Garden Project Q&M Plan, 2017).

## AREAS EXCEEDING SCREENING LEVELS FOR UNRESTRICTED LAND USE

LOWER MAIN MEADOW, POGONIP OPEN SPACE  
501 GOLF CLUB DRIVE  
SANTA CRUZ, CA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-POG-001	01/2022	EC	DW

0 150 300  
SCALE: 1" = 150'

## TABLES

**Table 1**  
**Lead Concentrations in Soil**  
Lower Main Meadow, Pogonip Open Space  
Santa Cruz, California

Sample ID	Date	Sample Depth (feet bgs)	Lead Shot Observed (Yes / No)	XRF Reading (ppm)	Lead (mg/kg)	
				Background Level <sup>1</sup>	43	
				Unrestricted (Residential) Screening Level <sup>2</sup>	80	
				Commercial Screening Level <sup>2</sup>	500	
				Recreational Trail Use Screening Level <sup>3</sup>	540	
<b>East Meadow</b>						
EM-34-1'	8/3/2021	1	No	784	637	
EM-34-2'	8/3/2021	2	No	56	37.9	
EM-35-0.5'	8/3/2021	0.5	No	1,822	1,800	
EM-35-2'	8/3/2021 <sup>4</sup>	2	No	147	198	
EM-36-0.5'	8/3/2021	0.5	No	1,579	2,090	
EM-36-2'	8/3/2021	2	No	64	28.6	
EM-37-0.5'	8/3/2021	0.5	No	955	571	
EM-37-2'	8/3/2021	2	No	13	14.7	
EM-38-0.5'	8/3/2021	0.5	No	499	490	
EM-38-2'	8/3/2021	2	No	48	41.3	
EM-39-0.5'	8/3/2021	0.5	No	519	504	
EM-39-2'	8/3/2021	2	No	285	220	
EM-40-0.5	8/3/2021	0.5	No	245	323	O1
EM-40-2'	8/3/2021	2	No	16	18.6	
<b>Ravine</b>						
R-1-0.5'	8/4/2021	0.5	No	226	400	
R-1-2'	8/4/2021	2	No	131	61.5	
R-2-0.5'	8/4/2021	0.5	No	28	215	
R-2-2'	8/4/2021	2	No	4	8.80	O1
R-3-0.5'	8/3/2021	0.5	No	810	1,530	
R-3-2'	8/3/2021	2	No	12	31.4	
R-4-0.5'	8/4/2021	0.5	No	1,302	1,600	
R-4-2'	8/4/2021	2	No	16	23.7	
R-5-0.5'	8/4/2021	0.5	No	234	9.86	
R-5-2'	8/4/2021	2	No	18	17.9	
R-6-0.5'	8/3/2021	0.5	No	628	573	
R-6-2'	8/3/2021	2	No	290	341	
R-7-0.5'	8/4/2021	0.5	No	454	456	
R-7-2'	8/4/2021	2	No	33	66.0	
R-8-1.5'	8/4/2021	1.5	No	98	--	
R-8-2'	8/4/2021	2	No	93	--	
R-9-0.5'	8/4/2021	0.5	No	182	256	
R-9-2'	8/4/2021	2	No	11	6.59	
R-10-0.5'	8/4/2021	0.5	No	86	94.0	
R-10-2'	8/4/2021	2	No	3	12.5	
R-11-0.5'	8/4/2021	0.5	No	93	75.7	
R-11-2'	8/4/2021	2	No	20	23.3	
R-12-0.5'	8/4/2021	0.5	No	61	--	
R-12-2'	8/4/2021	2	No	28	--	
R-13-0.5'	8/5/2021	0.5	No	741	686	
R-13-2'	8/5/2021	2	No	17	31.9	
R-14-0.5'	8/5/2021	0.5	No	1,075	1,220	
R-14-2'	8/5/2021	2	No	6	10.9	

**Table 1**  
**Lead Concentrations in Soil**  
Lower Main Meadow, Pogonip Open Space  
Santa Cruz, California

Sample ID	Date	Sample Depth (feet bgs)	Lead Shot Observed (Yes / No)	XRF Reading (ppm)	Lead (mg/kg)
Background Level <sup>1</sup>					43
Unrestricted (Residential) Screening Level <sup>2</sup>					80
Commercial Screening Level <sup>2</sup>					500
Recreational Trail Use Screening Level <sup>3</sup>					540
<b>Emma McCrary Trail Area</b>					
T-1-0.5'	8/3/2021	0.5	No	19	--
T-1-2'	8/3/2021	2	No	14	--
T-2-0.5'	8/4/2021	0.5	No	23	--
T-2-2'	8/4/2021	2	No	6	--
T-3-0.5'	8/4/2021	0.5	No	384	<b>474</b>
T-3-2'	8/4/2021	2	No	8	<b>8.15</b>
T-4-0.5'	1/11/2022	0.5	No	48	--
T-4-2'	1/11/2022	2	No	15	--
T-5-0.5'	1/11/2022	0.5	No	99	<b>159</b>
T-5-2'	1/11/2022	2	No	13	<b>7.07</b>
T-6-0.5'	1/11/2022	0.5	No	152 / 489 / 91	<b>187</b>
T-6-2'	1/11/2022	2	No	12	<b>9.42</b>
T-7-0.5'	1/11/2022	0.5	No	107 / 82	<b>153</b>
T-7-2'	1/11/2022	2	No	33	<b>8.92</b>
<b>North Orchard</b>					
NO-13-0.5'	8/5/2021	0.5	No	14	--
NO-13-2'	8/5/2021	2	No	3	--
NO-14-0.5'	8/5/2021	0.5	No	56	--
NO-14-2'	8/5/2021	2	No	4	--
<b>West Meadow</b>					
WM-16-0.5'	8/5/2021	0.5	No	18	--
WM-16-2'	8/5/2021	2	No	3	--
WM-17-0.5'	8/5/2021	0.5	No	133	--
WM-17-2'	8/5/2021	2	No	5	--

**Notes:**

Soil samples sieved using No. 10 sieve and metals analyzed using USEPA Method 6020.

Analytes detected above laboratory reporting limit are **emboldened**.

Analytes detected above background level and Recreational Trail User Screening Level are highlighted.

XRF = X-Ray Fluorescence.

bgs = below ground surface.

ppm = parts per million.

mg/kg = milligrams per kilogram.

-- = Not analyzed.

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

<sup>1</sup> Lawrence Berkeley National Laboratory (LBNL, 2009), was used to establish an acceptable upper estimate background concentration for

<sup>2</sup> In order of priority, the screening level represents the Department of Toxic Substances Control (DTSC)-modified screening level (DTSC, 2022) followed by U.S. Environmental Protection Agency (USEPA) Regional Screening Level (RSL; USEPA, 2022).

<sup>3</sup> The Recreational Trail Use Screening Level was determined based on an evaluation of soil data collected from 2019-2020 and was described in the Preliminary Endangerment Assessment Report (RMD, 2020).

<sup>4</sup> Sample EM-35-2' initially reported a lead concentration of 5,810 mg/kg and was reanalyzed to confirm the result. The reanalyzed sample reported a lead concentration of 198 mg/kg.

**References:**

DTSC, 2022. Human Health Risk Assessment (HHRA) Note Number 3. May.

LBNL, 2009. Analysis of Background Distributions of Metals in Soil at Lawrence Berkeley National Laboratory. Revised April.

RMD, 2020. Preliminary Endangerment Assessment Report, Pogonip Farm and Garden, 333 Golf Club Drive, Santa Cruz, California. August

USEPA, 2022. Regional Screening Level (RSL) Summary Table (TR=1E-6, HQ=1). May.

**Table 2**  
**Polycyclic Aromatic Hydrocarbon Concentrations in Soil**  
Lower Main Meadow, Pogonip Open Space  
Santa Cruz, California

Sample ID	Date	Sample Depth (feet bgs)	Depth Clay Target Fragments Observed (feet bgs)	Notes	ANTHRACENE	ACENAPHTHENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(G,H,I) PERYLENE	BENZO(K) FLUORANTHENE	CHRYSENE	DIBENZA(H) ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD) PYRENE	PHENANTHRENE	PYRENE	NAPHTHALENE	1-METHYL NAPHTHALENE	2-METHYL NAPHTHALENE				
					(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)				
<b>Unrestricted (Residential) Screening Level<sup>1</sup></b>																									
17,000																									
<b>Commercial Screening Level<sup>1</sup></b>																									
130,000																									
<b>Recreational Trail Use Screening Level<sup>2</sup></b>																									
120,000																									
<b>West Meadow</b>																									
WM-C-5-0.5'	05/13/2020	0 - 0.5			<0.00645	<0.00645	0.00425	J 0.00642	J 0.00668	J 0.00606	J 0.00326	J 0.00552	J <0.00645	0.00445	J <0.00645	0.00467	J <0.00645	0.00486	J <0.0215	<0.0215	<0.0215				
WM-C-6-0.5'	05/14/2020	0 - 0.5			<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	J 0.00244	J <0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.0215	<0.0215	<0.0215				
WM-C-7-0.5'	05/14/2020	0 - 0.5			<0.00752	<0.00752	0.00232	J 0.00283	J 0.00352	J 0.00295	J <0.00752	<0.00752	<0.00752	<0.00752	<0.00752	<0.00752	<0.00752	<0.00752	<0.0251	<0.0251	<0.0251				
WM-C-8-0.5'	05/14/2020	0 - 0.5			0.0273	0.0102	0.216	0.267	0.323	0.176	0.081	0.261	0.0532	0.340	J 0.155	0.102	0.309	<0.0240	<0.0240	<0.0240	<0.0240				
WM-C-8-2'	05/14/2020	1.5 - 2			<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.0247	<0.0247	<0.0247				
WM-C-9A-1'	05/15/2020	0.5 - 1	0.5-1.5		0.231	0.0866	5.6	10.4	11.5	4.88	2.79	6.44	1.85	4.22	J 4.9	<0.215	0.828	4.68	<0.215	<0.215	<0.215				
WM-C-9-2'	05/14/2020	1.5 - 2			<0.00717	<0.00717	0.0332	0.0608	0.0593	0.0545	0.0232	0.0412	0.0145	0.0272	<0.00717	0.0446	0.00582	J 0.0319	<0.0239	<0.0239	<0.0239				
WM-C-10-0.5'	05/14/2020	0 - 0.5			0.0115	0.00499	J 0.121	0.185	0.192	0.131	0.0803	0.172	0.0395	0.162	<0.00706	0.112	0.0508	0.155	<0.0235	<0.0235	<0.0235				
WM-C-10-2'	05/14/2020	1.5 - 2			0.0258	0.00645	J 0.175	0.243	0.298	0.179	0.0819	0.217	0.0506	0.268	J 0.153	0.0736	0.229	<0.0217	<0.0217	<0.0217	<0.0217				
WM-C-11-0.5'	05/13/2020	0 - 0.5			<0.00640	<0.00640	0.00257	J 0.00383	J 0.00553	J 0.00419	J <0.00640	0.00307	J <0.00640	0.00273	J <0.00640	0.00306	J <0.00640	0.0028	J <0.0213	<0.0213	<0.0213				
WM-C-11-2'	05/13/2020	1.5 - 2			0.56	0.23	2.68	2.56	2.88	1.42	0.772	3.02	0.468	3.81	0.123	1.25	2.43	4.18	J 0.0112	J 0.0106	J 0.0215				
WM-DG-1-0.5'	05/13/2020	0 - 0.5			<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	J 0.00247	J <0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.0229	<0.0229	<0.0229				
WM-DG-2-0.5'	05/13/2020	0 - 0.5			<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.0242	<0.0242	<0.0242				
WM-DG-3-0.5'	05/13/2020	0 - 0.5			<0.00676	<0.00676	<0.00676	<0.00676	<0.00676	J 0.00267	J 0.00215	J <0.00676	<0.00676	<0.00676	<0.00676	<0.00676	<0.00676	<0.00676	<0.0225	<0.0225	<0.0225				
WM-DG-4-0.5'	05/13/2020	0 - 0.5			<0.00726	<0.00726	<0.00726	<0.00726	<0.00726	J 0.0027	J 0.00347	J 0.00283	J <0.00726	<0.00726	<0.00726	<0.00726	<0.00726	<0.00726	<0.0242	<0.0242	<0.0242				
WM-DG-5-0.5'	05/13/2020	0 - 0.5			<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	J 0.00239	J 0.00287	J 0.00256	J <0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.0244	<0.0244	<0.0244				
WM-DG-6-0.5'	05/13/2020	0 - 0.5			0.131	0.0763	2.85	3.61	3.88	2.27	1.31	3.61	0.836	3.07	0.0173	2.03	0.633	3.23	J 0.00974	J 0.0111	J 0.0133				
WM-DG-6-2'	05/13/2020	1.5 - 2			0.185	0.114	5.43	7.56	7.92	4.06	1.85	7.05	0.238	5.06	0.0248	3.58	0.942	6.73	J 0.0141	J 0.0162	J 0.0194				
WM-DG-7-0.5'	05/13/2020	0 - 0.5			<0.00639	<0.00639	0.00345	J 0.00558	J 0.00635	J 0.00506	J <0.00639	0.00452	J <0.00639	0.00399	J <0.00639	0.00419	J <0.00639	0.00411	J <0.0213	<0.0213	<0.0213				
WM-DG-8-0.5'	05/13/2020	0 - 0.5			<0.00730	<0.00730	0.0529	0.107	0.113	0.0893	0.0331	0.0669	0.0252	0.0409											

**Table 2**  
**Polycyclic Aromatic Hydrocarbon Concentrations in Soil**  
Lower Main Meadow, Pogonip Open Space  
Santa Cruz, California

**Notes:**

PAHs analyzed using USEPA Method 8270C-SIM.

Analytes detected above laboratory reporting limit are **emboldened**.

Analytes detected above Unrestricted (Residential) Screening Level are highlighted orange.

Analytes detected above Recreational Trail Use Screening Level are highlighted blue.

Analytes detected above Commercial Screening Level are underlined.

bgs = Below ground surface.

mg/kg = Milligrams per kilogram.

NE = Not Established.

PAHs = Polycyclic Aromatic Hydrocarbons.

SIM = Selective Ion Mode.

J = The identification of the analyte is acceptable; the reported value is an estimate.

J3 = The associated batch QC was outside the established quality control range for precision.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

<sup>1</sup>The screening level represents the Department of Toxic Substances Control (DTSC)-modified screening level (DTSC, 2020).

<sup>2</sup>The Recreational Trail Use Screening Level was determined based on an evaluation of soil data collected from 2019-2020.

**References:**

DTSC, 2020. Human Health Risk Assessment (HHRA) Note Number 3. June.

**Table 1**  
**Metals in Soil**  
 Pogonip Farm and Garden  
 Santa Cruz, California

Sample ID	Date	Sample Depth	Depth Shot Observed	XRF Reading	Notes	Antimony		Arsenic		Copper		Lead		Zinc	
		(feet bas)	(feet bas)	(ppm)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
						Background Level <sup>1</sup>	6	11	63	43			140		
						Unrestricted (Residential) Screening Level <sup>2</sup>	31	0.11	3,100	80			23,000		
						Commercial Screening Level <sup>2</sup>	470	0.36	47,000	320			350,000		
West Meadow															
WM-C-1-0.5'	5/13/2020	0 - 0.5		222		1.31	J	2.63		12.3		181		23.9	
WM-C-1-2'	5/13/2020	1.5 - 2		54		-		-		-		36.9		-	
WM-C-2-0.5'	5/13/2020	0 - 0.5		202		0.989	J	2.13	J	6.91		182		15.3	
WM-C-2-0.5' DUP	5/13/2020	0 - 0.5		202	Duplicate	1.57	J	2.45		7.54		156		13.6	
WM-C-2-2'	5/13/2020	1.5 - 2		26		-		-		-		11.1		-	
WM-C-3-0.5'	5/13/2020	0 - 0.5		244		1.23	J	2.14	J	8.38		161		53.6	
WM-C-3-2'	5/13/2020	1.5 - 2		13		-		-		-		23.5		-	
WM-C-4-0.5'	5/13/2020	0 - 0.5		368		0.683	J	1.92	J	6.96		141		15	
WM-C-4-2'	5/13/2020	1.5 - 2		27		-		-		-		12.6		-	
WM-C-5-0.5'	5/13/2020	0 - 0.5		95		0.568	J	1.58	J	77.7	O1	76.9	O1	78.5	
WM-C-6-0.5'	5/14/2020	0 - 0.5		30		0.897	J,J6	2.16		4.92		10.6		19.7	
WM-C-7-0.5'	5/14/2020	0 - 0.5		13		0.785	J	<2.51		47.3		8.57		59.1	
WM-C-8-0.5'	5/14/2020	0 - 0.5		31		0.879	J	<2.40		18.1		15.0		31.0	
WM-C-9A-1'	5/15/2020	0.5 - 1		105		0.727	J	1.55	J	5.61		71.2		18.6	
WM-C-10-0.5'	5/14/2020	0 - 0.5		-		1.65	J	3.81		9.09		27.0		26.6	
WM-C-11-0.5'	5/13/2020	0 - 0.5		45		1.47	J	10.7		7.86		29.3		24.3	
WM-DG-1-0.5'	5/13/2020	0 - 0.5		241		1.41	J	2.69		8.57		188		16.4	
WM-DG-1-2'	5/13/2020	1.5 - 2		9		-		-		-		15.9		-	
WM-DG-2-0.5'	5/13/2020	0 - 0.5		168		<2.42		2.74		10.3		6.16		12.9	
WM-DG-3-0.5'	5/13/2020	0 - 0.5		90		0.833	J	1.28	J	5.66		51.1		23.0	
WM-DG-4-0.5'	5/13/2020	0 - 0.5		30		<2.42		1.76	J	16.2		19.8		28.3	
WM-DG-5-0.5'	5/13/2020	0 - 0.5		19		<2.44		1.53	J	13.9		38.1		23.1	
WM-DG-6-0.5'	5/13/2020	0 - 0.5		311		<2.22		2.25		11.0		27.0		18.5	
WM-DG-7-0.5'	5/13/2020	0 - 0.5		120		0.721	J	1.77	J	7.01		116		17.0	
WM-DG-7-2'	5/13/2020	1.5 - 2		29		-		-		-		12.1		-	
WM-DG-8-0.5'	5/13/2020	0 - 0.5		59		0.637	J	1.43	J	9.12		55.7		21.0	
WM-DG-9-0.5'	5/13/2020	0 - 0.5		28		<2.31		1.52	J	299		17.5		91.1	
WM-DG-10-0.5'	5/13/2020	0 - 0.5		46		0.640	J	2.78		10.9		28.7		25.0	
WM-DG-11-0.5'	5/14/2020	0 - 0.5		59		2.01	J	2.72	B	263		76.0		689	
WM-DG-11-0.5'-DUP	5/14/2020	0 - 0.5		59	Duplicate	1.55	J	2.13	B,J	14.9		40.9		75.8	
WM-DG-11A-1'	5/15/2020	0.5 - 1		16		<2.20		1.77	J	9.01		11.5		15.6	
WM-DG-12-0.5'	5/14/2020	0 - 0.5		64		1.58	J	1.65	B,J	10.8		39.1		51.6	
WM-DG-13-1.5'	5/14/2020	1 - 1.5		1,095		41.7	J	15.9	B,J	6,320		1,230		28,500	
WM-DG-13-2'	5/14/2020	1.5 - 2		33		3.33		3.61	B	214		49.0		2,770	
WM-DG-14-0.5'	5/14/2020	0 - 0.5		19		0.817	J	2.82	B	8.28		13.8		40.8	
WM-DG-15-0.5'	5/14/2020	0 - 0.5		23		1.80	J	2.17	B,J	76.9		23.8		303	
North Orchard															
NO-1-0.5'	5/14/2020	0 - 0.5		225		3.54		3.05	B	6.32		265		24.0	
NO-1-2'	5/14/2020	1.5 - 2		25		-		-		-		6.55		-	
NO-2-0.5'	5/14/2020	0 - 0.5		119		1.65	J	1.94	B,J	8.14		107		17.6	
NO-2-2'	5/14/2020	1.5 - 2		28		-		-		-		5.58		-	
NO-3-0.5'	5/14/2020	0 - 0.5		863		6.94		4.77	B	11.3		690		21.5	
NO-3-2'	5/14/2020	1.5 - 2		35		-		-		-		45.3		-	
NO-4-0.5'	5/14/2020	0 - 0.5		211		2.03	J	1.60	B,J	8.16		180		15.7	
NO-4-2'	5/14/2020	1.5 - 2		16		-		-		-		3.97		-	
NO-5-0.5'	5/14/2020	0 - 0.5		10		1.08	J	1.57	B,J	50.8		40.0		44.2	
NO-6-0.5'	5/14/2020	0 - 0.5		118		1.97	J	2.32	B,J	23.2		144		41.8	
NO-6-2'	5/14/2020	1.5 - 2		14		-		-		-		13.9		-	
NO-7-0.5'	5/14/2020	0 - 0.5		43		0.926	J	1.91	B,J	8.08		29.8		24.8	
NO-8-0.5'	5/15/2020	0 - 0.5		31		0.928	J	<2.46		18.9		18.5		23.1	
NO-9-0.5'	5/14/2020	0 - 0.5		39		1.51	J	1.70	B,J	14.4		20.0		26.7	
NO-10-0.5'	5/15/2020	0 - 0.5		17		<2.33		<2.33		18.0		14.0		27.5	
NO-11-0.5'	5/15/2020	0 - 0.5		18		1.04	J	0.655	J	15.0		14.5		26.8	
NO-12-0.5'	5/15/2020	0 - 0.5		21		0.718	J	<2.42		17.1		10.5		49.8	
East Meadow															
EM-1-0.5'	5/12/2020	0 - 0.5		119		2.34		2.42		63.1		138		69.6	
EM-1-2'	5/12/2020	1.5 - 2		39		-		-		-		22.1		-	
EM-2-0.5'	5/12/2020	0 - 0.5		153		1.93	J	2.42		24.6		182		31.0	
EM-2-2'	5/12/2020	1.5 - 2		15		-		-		-		13.4		-	
EM-3-0.5'	5/12/2020	0 - 0.5		219		2.87		3.23		16.6		203		20.4	
EM-3-2'	5/12/2020	1.5 - 2		24		-		-		-		51.3		-	
EM-4-1.5'	5/12/2020	1 - 1.5		166		5.15		4.58		15.8		164		25.3	
EM-4-2'	5/12/2020	1.5 - 2		47		-		-		-		61.3		-	
EM-5-0.5'	5/12/2020	0 - 0.5		139		2.51		3.21		19.1		115		26.4	
EM-5-2'	5/12/2020	1.5 - 2		95		-		-		-		53.6		-	
EM-6-0.5'	5/12/2020	0 - 0.5		372		3.46		3.91		19.9		264		28.8	
EM-6-2'	5/12/2020	1.5 - 2		83		-		-		-		17.9		-	
EM-7-0.5'	5/12/2020	0 - 0.5		758		17.0		9.58		21.1		752		30.7	
EM-7-2'	5/12/2020	1.5 - 2		46		-		-		-		117		-	
EM-8-1'	5/12/2020	0.5 - 1		549		11.8		8.69		14.7		712		31.1	
EM-8-2'	5/12/2020	1.5 - 2		94		-		-		-		140		-	

**Table 1**  
**Metals in Soil**  
Pogonip Farm and Garden  
Santa Cruz, California

Sample ID	Date	Sample Depth	Depth Shot Observed	XRF Reading	Notes	Antimony	Arsenic	Copper	Lead	Zinc
		(feet bgs)	(feet bgs)	(ppm)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Background Level <sup>1</sup>	6	11	63	43	140
					Unrestricted (Residential) Screening Level <sup>2</sup>	31	0.11	3,100	80	23,000
					Commercial Screening Level <sup>2</sup>	470	0.36	47,000	320	350,000
EM-9-0.5'	5/12/2020	0 - 0.5		1,227		<b>5.46</b>	<b>6.71</b>	<b>10.7</b>	<b>1.140</b>	<b>22.1</b>
EM-9-2'	5/12/2020	1.5 - 2		168		-	-	-	<b>81.9</b>	-
EM-10-0.5'	5/12/2020	0 - 0.5		2,973		<b>6.07</b>	<b>8.44</b>	<b>12.6</b>	<b>1.670</b>	<b>29.0</b>
EM-10-2'	5/12/2020	1.5 - 2		15		-	-	-	34.1	-
EM-11-0.5'	5/12/2020	0 - 0.5		569		<b>3.78</b>	<b>7.16</b>	<b>24.4</b>	<b>856</b>	<b>36.2</b>
EM-11-2'	5/12/2020	1.5 - 2		94		-	-	-	<b>140</b>	-
EM-12-0.5'	5/14/2020	0 - 0.5		31		<2.44	3.04	B	38.6	9.15
EM-13-0.5'	5/15/2020	0 - 0.5		24		<b>0.815</b>	J	<b>0.554</b>	<b>9.98</b>	<b>11.2</b>
EM-14-0.5'	5/14/2020	0 - 0.5		38		<b>1.58</b>	J	<b>2.92</b>	B	12.5
EM-14-0.5'-DUP	5/14/2020	0 - 0.5		38	Duplicate	<b>2.14</b>	J	<b>2.80</b>	B	<b>14.0</b>
EM-15-0.5'	5/15/2020	0 - 0.5		26		<b>1.12</b>	J	<b>1.72</b>	J	<b>13.0</b>
EM-16-0.5'	5/15/2020	0 - 0.5		42		<b>1.00</b>	J	<b>1.33</b>	J	<b>14.0</b>
EM-17-0.5'	5/15/2020	0 - 0.5		47		<b>1.50</b>	J	<b>1.13</b>	J	<b>13.8</b>
EM-18-0.5'	5/15/2020	0 - 0.5		39		<b>3.29</b>		<b>2.35</b>		<b>11.2</b>
EM-19-0.5'	5/14/2020	0 - 0.5		167		<b>3.13</b>		<b>3.57</b>	B	<b>12.7</b>
EM-19-2'	5/14/2020	1.5 - 2		64		-	-	-		<b>38.4</b>
EM-20-0.5'	5/15/2020	0 - 0.5		58		<2.53		<b>2.07</b>	J	<b>20.5</b>
EM-20-2'	5/15/2020	1.5 - 2		10		-	-	-		<b>9.26</b>
EM-21-0.5'	5/14/2020	0 - 0.5		776		<b>10.0</b>		<b>6.12</b>		<b>7.16</b>
EM-21-0.5'-DUP	5/14/2020	0 - 0.5		776	Duplicate	<b>6.85</b>		<b>5.65</b>	B	<b>7.33</b>
EM-21-2'	5/14/2020	1.5 - 2		17		-	-	-		<b>9.52</b>
EM-22-0.5'	5/15/2020	0 - 0.5		100		<2.28		<b>2.39</b>		<b>12.3</b>
EM-22-2'	5/15/2020	1.5 - 2		17		-	-	-		<b>25.9</b>
EM-23-0.5'	5/15/2020	0 - 0.5		29		<b>0.932</b>	J	<b>1.24</b>	J	<b>12.8</b>
EM-24-0.5'	5/15/2020	0 - 0.5		33		<b>0.886</b>	J	<b>0.686</b>	J	<b>9.50</b>
EM-25-0.5'	5/15/2020	0 - 0.5		30		<b>0.786</b>	J	<b>0.810</b>	J	<b>12.2</b>
EM-26-0.5'	5/15/2020	0 - 0.5		19		<b>0.656</b>	J	<b>1.02</b>	J	<b>11.7</b>
EM-27-0.5'	5/15/2020	0 - 0.5		34		<b>1.02</b>	J	<b>0.823</b>	J	<b>13.6</b>
EM-28-0.5'	5/15/2020	0 - 0.5		29		<b>0.813</b>	J	<b>0.865</b>	J	<b>14.4</b>
EM-29-0.5'	5/15/2020	0 - 0.5		31		<b>0.720</b>	J	<b>1.02</b>	J	<b>10.8</b>
EM-30-0.5'	5/15/2020	0 - 0.5		31		<2.25		<b>2.52</b>		<b>21.9</b>
EM-31-0.5'	5/15/2020	0 - 0.5		33		<2.30		<b>2.07</b>	J	<b>9.94</b>
EM-32-0.5'	5/15/2020	0 - 0.5		18		<2.34		<b>2.01</b>	J	<b>13.8</b>
EM-33-0.5'	5/15/2020	0 - 0.5		17		<2.25		<b>2.23</b>	J	<b>8.74</b>
										<b>12.3</b>
										<b>19.0</b>

**Notes:**

Soil samples sieved using No. 10 sieve and metals analyzed using USEPA Method 6010B.

Analytes detected above laboratory reporting limit are **emboldened**.

Analytes detected above background level and Unrestricted (Residential) Screening Level are highlighted.

Analytes detected above background level and Commercial Screening Level are underlined.

bgs = Below ground surface.

mg/kg = Milligrams per kilogram.

- = Not analyzed.

B = The same analyte is found in the associated blank.

J = The identification of the analyte is acceptable; the reported value is an estimate.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

<sup>1</sup> Lawrence Berkeley National Laboratory (LBNL, 2009), was used to establish acceptable upper estimate background concentrations for metals with the exception of arsenic. For arsenic, the background level represents the established background level for San Francisco Bay Region of 11 mg/kg (Duverg , 2011).

<sup>2</sup> In order of priority, the screening level represents the Department of Toxic Substances Control (DTSC)-modified screening level (DTSC, 2020) followed by U.S. Environmental Protection Agency (USEPA) Regional Screening Level (RSL; USEPA, 2020).

**References:**

DTSC, 2020. Human Health Risk Assessment (HHRA) Note Number 3. June.

Duverg , 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region. December.

LBNL, 2009. Analysis of Background Distributions of Metals in Soil at Lawrence Berkeley National Laboratory. Revised April.

USEPA, 2020. Regional Screening Level (RSL) Summary Table (TR-1E-6, HQ-1). May.

**Table A1**  
**Summary of Soil Analytical Results**  
Pogonip Farm and Garden  
Santa Cruz, California

Sample ID	Sample Date	Sample Depth	Sample Type	Metals				TPH				
				Arsenic	Copper	Lead	Zinc	Diesel	Motor Oil			
RWQCB Residential ESLs				0.26	3,100	80	23,000	260	12,000			
RWQCB Commercial/Industrial ESLs				0.31	47,000	320	350,000	1,200	180,000			
RWQCB Construction Worker ESLs				0.98	14,000	160	110,000	1,100	54,000			
B1	2/28/2019	0.0-0.5	Composite	<b>2.1</b>	3.9	<b>120</b>	17	<0.24	<1.3			
B1N-0.5	2/28/2019	0.0-0.5	Discrete	---	---	<b>150</b>	---	---	---			
B1S-0.5	2/28/2019	0.0-0.5	Discrete	---	---	58	---	---	---			
B1E-0.5	2/28/2019	0.0-0.5	Discrete	---	---	<b>110</b>	---	---	---			
B1W-0.5	2/28/2019	0.0-0.5	Discrete	---	---	64	---	---	---			
B1	2/28/2019	1.5-2.0	Composite	<b>2.9</b>	4.6	6.2	18	---	---			
B1N-2.0	2/28/2019	1.5-2.0	Discrete	---	---	4.5	---	---	---			
B1S-2.0	2/28/2019	1.5-2.0	Discrete	---	---	9.5	---	---	---			
B1E-2.0	2/28/2019	1.5-2.0	Discrete	---	---	8.0	---	---	---			
B1W-2.0	2/28/2019	1.5-2.0	Discrete	---	---	6.4	---	---	---			
B2	2/28/2019	0.0-0.5	Composite	<b>2.0</b>	3.2	60	60	<0.24	<1.3			
B2	2/28/2019	1.5-2.0	Composite	<b>1.6</b>	3.3	5.8	98	---	---			
B3	2/28/2019	0.0-0.5	Composite	<b>2.8</b>	3.1	<b>84</b>	20	<0.24	<1.3			
B3N-0.5	2/28/2019	0.0-0.5	Discrete	---	---	<b>190</b>	---	---	---			
B3S-0.5	2/28/2019	0.0-0.5	Discrete	---	---	48	---	---	---			
B3E-0.5	2/28/2019	0.0-0.5	Discrete	---	---	47	---	---	---			
B3W-0.5	2/28/2019	0.0-0.5	Discrete	---	---	<b>89</b>	---	---	---			
B3	2/28/2019	1.5-2.0	Composite	<b>2.5</b>	3.9	5.6	22	---	---			
B3N-2.0	2/28/2019	1.5-2.0	Discrete	---	---	5.7	---	---	---			
B3S-2.0	2/28/2019	1.5-2.0	Discrete	---	---	11	---	---	---			
B3E-2.0	2/28/2019	1.5-2.0	Discrete	---	---	20	---	---	---			
B3W-2.0	2/28/2019	1.5-2.0	Discrete	---	---	5.8	---	---	---			
B4	2/28/2019	0.0-0.5	Composite	<b>1.8</b>	3.6	24	19	<0.24	<1.3			
B4	2/28/2019	1.5-2.0	Composite	<b>1.8</b>	3.8	6.6	19	---	---			
B5	2/28/2019	0.0-0.5	Composite	<b>9.6</b>	4.2	25	26	<0.24	<1.3			
B5	2/28/2019	1.5-2.0	Composite	<b>7.3</b>	3.7	4.6	20	---	---			
B6	2/28/2019	0.0-0.5	Composite	<b>1.6</b>	4.0	60	23	8.4 A01, A52	85 A01, A57			
B6	2/28/2019	1.5-2.0	Composite	<b>2.1</b>	3.5	6.4	22	---	---			
B7	2/28/2019	0.0-0.5	Composite	<b>3.2</b>	50	38	160	<0.24	<1.3			
B7	2/28/2019	1.5-2.0	Composite	<b>2.9</b>	7.1	8.6	47	---	---			
B8	2/28/2019	0.0-0.5	Composite	<b>3.7</b>	4.8	19	22	1.3 J, A52	2.1 J, A57			
B8	2/28/2019	1.5-2.0	Composite	<b>4.4</b>	4.1	5.8	19	---	---			
B9	2/28/2019	0.0-0.5	Composite	<b>1.8</b>	3.8	8.9	19	1.3 J, A52	3.4 J, A57			

**Table A1**  
**Summary of Soil Analytical Results**  
 Pogonip Farm and Garden  
 Santa Cruz, California

Sample ID	Sample Date	Sample Depth	Sample Type	Metals				TPH				
				Arsenic	Copper	Lead	Zinc	Diesel	Motor Oil			
RWQCB Residential ESLs				0.26	3,100	80	23,000	260	12,000			
RWQCB Commercial/Industrial ESLs				0.31	47,000	320	350,000	1,200	180,000			
RWQCB Construction Worker ESLs				0.98	14,000	160	110,000	1,100	54,000			
B9	2/28/2019	1.5-2.0	Composite	<b>3.0</b>	4.3	12	20	---	---			
B10	2/28/2019	0.0-0.5	Composite	<b>0.98</b>	3.2	6.1	19	1.3 J, A52	1.7 J, A57			
B10	2/28/2019	1.5-2.0	Composite	<b>1.2</b>	3.4	4.4	17	---	---			
B11	2/28/2019	0.0-0.5	Composite	<b>2.2</b>	4	11	20	<0.24	<1.3			
B11	2/28/2019	1.5-2.0	Composite	<b>1.9</b>	3.5	5.1	19	---	---			
B12	2/28/2019	0.0-0.5	Composite	<b>1.2</b>	2.9	10	15	<0.24	<1.3			
B12	2/28/2019	1.5-2.0	Composite	<b>2.2</b>	3.3	6.9	24	NA	NA			
B13	2/28/2019	0.0-0.5	Composite	<b>1.4</b>	2.8	70	17	NA	NA			

**Notes:**

9.6            50.0            190.0            160.0

Sample results reported in milligrams per kilogram (mg/kg).

Metals analyzed by USEPA Method 6010B.

TPH analyzed by USEPA Method 8015B.

TPH = total petroleum hydrocarbons.

Bolded value = exceedence of Residential ESL.

<0.24 = not detected above analytical laboratory Method Detection Limit (MDL).

--- = not analyzed or not established.

J = Estimated Value.

A01 = Detection and quantation limits were raised due to sample dilution.

A52 = Chromatogram not typical of diesel.

A57 = Chromatogram not typical of motor oil.

RWQCB ESL = San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (January 2019, Rev 1).

**Table A2**  
**Summary of Soil Analytical Results - PAHs**  
 Pogonip Farm and Garden  
 Santa Cruz, California

Sample ID	Sample Date	Sample Depth (feet)	PAHs															
			Acenaphthene	Anthracene	Benzol[a]anthracene	Benzol[b]fluoranthene	Benzol[k]fluoranthene	Benzol[ap]pyrene	Benzol[g,h,i]perylene	Chrysene	Dibenzol[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene			
RWQCB Residential ESLs			3,600	18,000	1.1	1.1	11	0.11	NE	110	0.11	2,400	2,400	1.1	NE	1,800		
RWQCB Commercial/Industrial ESLs			45,000	230,000	20	21	210	2.1	NE	2,100	2.1	30,000	30,000	21	NE	23,000		
RWQCB Construction Worker ESLs			10,000	50,000	110	110	910	10	NE	9,100	11	6,700	6,700	110	NE	5,000		
B1	2/28/2019	0.0-0.5	<0.0012	<0.0012	<0.0011	<0.00095	<0.0011	0.0020 J	<0.0011	<0.00097	<0.00099	<0.0014	<0.0011	<0.00092	<0.0012	<0.0015		
B2	2/28/2019	0.0-0.5	<0.0012	<0.0012	0.0012 J	0.0028 J	<0.0011	0.0031	<0.0011	0.0011 J	<0.00099	<0.0014	<0.0011	<0.00092	<0.0012	<0.0015		
B3	2/28/2019	0.0-0.5	<0.0012	<0.0012	0.0016 J	0.0034	<0.0011	0.0034	<0.0011	0.0016 J	<0.00099	<0.0014	<0.0011	<0.00092	<0.0012	<0.0015		
B4	2/28/2019	0.0-0.5	<0.0012	<0.0012	<0.0011	0.0019 J	<0.0011	0.0024 J	<0.0011	<0.00097	<0.00099	<0.0014	<0.0011	<0.00092	<0.0012	<0.0015		
B5	2/28/2019	0.0-0.5	0.026	0.13 A01	0.55 A01	0.49 A01	0.20 A01	<b>0.44 A01</b>	0.17 A01	0.59 A01	0.063	0.78 A01	0.013	0.18 A01	0.48 A01	0.85 A01		
B6	2/28/2019	0.0-0.5	0.006	0.014	0.22 A01	0.33 A01	0.10 A01	<b>0.32 A01</b>	0.23 A01	0.25 A01	0.066 A01	0.19 A01	0.0012 J	0.20 A01	0.042	0.24 A01		
B7	2/28/2019	0.0-0.5	0.0063	0.024	0.42 A01	0.66 A01	0.26 A01	<b>0.64 A01</b>	0.50 A01	0.49 A01	<b>0.17 A01</b>	0.31 A01	0.0019 J	0.45 A01	0.075 A01	0.39 A01		
B8	2/28/2019	0.0-0.5	<0.0012	<0.0012	0.0095	0.19	0.0054	0.014	0.0097	0.011	0.0016 J	0.0092	<0.0011	0.0078	0.0025 J	0.012		
B9	2/28/2019	0.0-0.5	<0.0012	<0.0012	0.0021 J	<0.00095	<0.0011	0.0043 J	0.0019 J	0.0023 J	<0.00099	0.0019 J	<0.0011	0.0015 J	<0.0012	0.0022 J		
B10	2/28/2019	0.0-0.5	<0.0012	<0.0012	<0.0011	<0.00095	<0.0011	0.0019 J	<0.0011	<0.00097	<0.00099	<0.0014	<0.0011	<0.00092	<0.0012	<0.0015		
B11	2/28/2019	0.0-0.5	0.0050	0.0098	0.17 A01	0.21 A01	0.064	<b>0.19 A01</b>	0.091 A01	0.20 A01	0.031	0.17 A01	<0.0011	0.089 A01	0.028	0.20 A01		
B12	2/28/2019	0.0-0.5	<0.0012	<0.0012	<0.0011	<0.00095	<0.0011	<0.00095	<0.0011	<0.00097	<0.00099	<0.0014	<0.0011	<0.00092	<0.0012	<0.0015		

**Notes:**

Sample results reported in milligrams per kilogram (mg/kg).

PAHs analyzed by USEPA Method 8270C.

Bolded value = exceedence of Residential ESL.

<0.0012 = not detected above analytical laboratory Method Detection Limit (MDL).

PAHs = Polycyclic Aromatic Hydrocarbons.

NA = not analyzed.

J = Estimated Value.

NE = ESL not established.

A01 = Detection and quantation limits were raised due to sample dilution.

RWQCB ESL = San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (January 2019, Rev 1).

**Table A3**  
**Metals in Soil**  
Pogonip Farm and Garden  
Santa Cruz, California

Sample ID	Date	Sample Depth	Depth Shot Observed	XRF Reading	Notes	Antimony	Arsenic	Copper	Lead	Zinc
		(feet bgs)	(feet bgs)	(ppm)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Residential Screening Level	31	11	3,100	80	23,000
					Screening Level Source	USEPA RSLs	Background	USEPA RSLs	HHRA Note 3	USEPA RSLs
<b>West Meadow</b>										
WM-C-1-0.5'	5/13/2020	0 - 0.5		222		1.31	J	2.63		12.3
WM-C-1-2'	5/13/2020	1.5 - 2		54		-		-		36.9
WM-C-2-0.5'	5/13/2020	0 - 0.5		202		0.989	J	2.13	J	6.91
WM-C-2-0.5' DUP	5/13/2020	0 - 0.5		202	Duplicate	1.57	J	2.45		7.54
WM-C-2-2'	5/13/2020	1.5 - 2		26		-		-		11.1
WM-C-3-0.5'	5/13/2020	0 - 0.5		244		1.23	J	2.14	J	8.38
WM-C-3-2'	5/13/2020	1.5 - 2		13		-		-		23.5
WM-C-4-0.5'	5/13/2020	0 - 0.5		368		0.683	J	1.92	J	6.96
WM-C-4-2'	5/13/2020	1.5 - 2		27		-		-		12.6
WM-C-5-0.5'	5/13/2020	0 - 0.5		95		0.568	J	1.58	J	77.7
WM-C-6-0.5'	5/14/2020	0 - 0.5		30		0.897	J,J6	2.16		4.92
WM-C-7-0.5'	5/14/2020	0 - 0.5		13		0.785	J	<2.51		47.3
WM-C-8-0.5'	5/14/2020	0 - 0.5		31		0.879	J	<2.40		18.1
WM-C-9A-1'	5/15/2020	0.5 - 1		105		0.727	J	1.55	J	5.61
WM-C-10-0.5'	5/14/2020	0 - 0.5		-		1.65	J	3.81		9.09
WM-C-11-0.5'	5/13/2020	0 - 0.5		45		1.47	J	10.7		7.86
WM-DG-1-0.5'	5/13/2020	0 - 0.5		241		1.41	J	2.69		8.57
WM-DG-1-2'	5/13/2020	1.5 - 2		9		-		-		15.9
WM-DG-2-0.5'	5/13/2020	0 - 0.5		168		<2.42		2.74		10.3
WM-DG-3-0.5'	5/13/2020	0 - 0.5		90		0.833	J	1.28	J	5.66
WM-DG-4-0.5'	5/13/2020	0 - 0.5		30		<2.42		1.76	J	16.2
WM-DG-5-0.5'	5/13/2020	0 - 0.5		19		<2.44		1.53	J	13.9
WM-DG-6-0.5'	5/13/2020	0 - 0.5		311		<2.22		2.25		11.0
WM-DG-7-0.5'	5/13/2020	0 - 0.5		120		0.721	J	1.77	J	7.01
WM-DG-7-2'	5/13/2020	1.5 - 2		29		-		-		12.1
WM-DG-8-0.5'	5/13/2020	0 - 0.5		59		0.637	J	1.43	J	9.12
WM-DG-9-0.5'	5/13/2020	0 - 0.5		28		<2.31		1.52	J	299
WM-DG-10-0.5'	5/13/2020	0 - 0.5		46		0.640	J	2.78		10.9
WM-DG-11-0.5'	5/14/2020	0 - 0.5		59		2.01	J	2.72	B	263
WM-DG-11-0.5'-DUP	5/14/2020	0 - 0.5		59	Duplicate	1.55	J	2.13	B,J	14.9
WM-DG-11A-1'	5/15/2020	0.5 - 1		16		<2.20		1.77	J	9.01
WM-DG-12-0.5'	5/14/2020	0 - 0.5		64		1.58	J	1.65	B,J	10.8
WM-DG-13-1.5'	5/14/2020	0 - 0.5	1-2	1,095		41.7	J	15.9	B,J	6,320
WM-DG-13-2'	5/14/2020	1.5 - 2		33		3.33		3.61	B	214
WM-DG-14-0.5'	5/14/2020	0 - 0.5		19		0.817	J	2.82	B	8.28
WM-DG-15-0.5'	5/14/2020	0 - 0.5		23		1.80	J	2.17	B,J	76.9
<b>North Orchard</b>										
NO-1-0.5'	5/14/2020	0 - 0.5		225		3.54		3.05	B	6.32
NO-1-2'	5/14/2020	1.5 - 2		25		-		-		6.55
NO-2-0.5'	5/14/2020	0 - 0.5		119		1.65	J	1.94	B,J	8.14
NO-2-2'	5/14/2020	1.5 - 2		28		-		-		5.58
NO-3-0.5'	5/14/2020	0 - 0.5		863		6.94		4.77	B	11.3
NO-3-2'	5/14/2020	1.5 - 2		35		-		-		45.3
NO-4-0.5'	5/14/2020	0 - 0.5		211		2.03	J	1.60	B,J	8.16
NO-4-2'	5/14/2020	1.5 - 2		16		-		-		3.97
NO-5-0.5'	5/14/2020	0 - 0.5		10		1.08	J	1.57	B,J	50.8
NO-6-0.5'	5/14/2020	0 - 0.5		118		1.97	J	2.32	B,J	23.2
NO-6-2'	5/14/2020	1.5 - 2		14		-		-		13.9
NO-7-0.5'	5/14/2020	0 - 0.5		43		0.926	J	1.91	B,J	8.08
NO-8-0.5'	5/15/2020	0 - 0.5		31		0.928	J	<2.46		18.9
NO-9-0.5'	5/14/2020	0 - 0.5		39		1.51	J	1.70	B,J	14.4
NO-10-0.5'	5/15/2020	0 - 0.5		17		<2.33		<2.33		18.0
NO-11-0.5'	5/15/2020	0 - 0.5		18		1.04	J	0.655	J	15.0
NO-12-0.5'	5/15/2020	0 - 0.5		21		0.718	J	<2.42		17.1
<b>East Meadow</b>										
EM-1-0.5'	5/12/2020	0 - 0.5		119		2.34		2.42		63.1
EM-1-2'	5/12/2020	1.5 - 2		39		-		-		22.1
EM-2-0.5'	5/12/2020	0 - 0.5		153		1.93	J	2.42		24.6
EM-2-2'	5/12/2020	1.5 - 2		15		-		-		13.4
EM-3-0.5'	5/12/2020	0 - 0.5		219		2.87		3.23		16.6
EM-3-2'	5/12/2020	1.5 - 2		24		-		-		51.3
EM-4-1.5'	5/12/2020	1 - 1.5		166		5.15		4.58		15.8
EM-4-2'	5/12/2020	1.5 - 2		47		-		-		16.4
EM-5-0.5'	5/12/2020	0 - 0.5		139		2.51		3.21		19.1
EM-5-2'	5/12/2020	1.5 - 2		95		-		-		53.6
EM-6-0.5'	5/12/2020	0 - 0.5		372		3.46		3.91		19.9
EM-6-2'	5/12/2020	1.5 - 2		83		-		-		264
EM-7-0.5'	5/12/2020	0 - 0.5		758		17.0		9.58		21.1
EM-7-2'	5/12/2020	1.5 - 2		46		-		-		752
EM-8-1'	5/12/2020	0.5 - 1		549		11.8		8.69		14.7
EM-8-2'	5/12/2020	1.5 - 2		94		-		-		717
EM-9-0.5'	5/12/2020	0 - 0.5		1,227		5.46		6.71		10.7
EM-9-2'	5/12/2020	1.5 - 2		168		-		-		1,140
EM-9-2'	5/12/2020	1.5 - 2		168		-		-		22.1
EM-9-2'	5/12/2020	1.5 - 2		168		-		-		81.9

**Table A3**  
**Metals in Soil**  
Pogonip Farm and Garden  
Santa Cruz, California

Sample ID	Date	Sample Depth	Depth Shot Observed	XRF Reading	Notes	Antimony	Arsenic	Copper	Lead	Zinc
		(feet bgs)	(feet bgs)	(ppm)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
				Residential Screening Level		31	11	3,100	80	23,000
EM-10-0.5'	5/12/2020	0 - 0.5		2,973		<b>6.07</b>	<b>8.44</b>	<b>12.6</b>	<b>1,670</b>	<b>29.0</b>
EM-10-2'	5/12/2020	1.5 - 2		15		-	-	-	34.1	-
EM-11-0.5'	5/12/2020	0 - 0.5		569		<b>3.78</b>	<b>7.16</b>	<b>24.4</b>	<b>856</b>	<b>36.2</b>
EM-11-2'	5/12/2020	1.5 - 2		94		-	-	-	<b>140</b>	-
EM-12-0.5'	5/14/2020	0 - 0.5		31		<2.44	3.04	B	<b>38.6</b>	9.15
EM-13-0.5'	5/15/2020	0 - 0.5		24		<b>0.815</b>	J	<b>0.554</b>	<b>9.98</b>	11.2
EM-14-0.5'	5/14/2020	0 - 0.5		38		<b>1.58</b>	J	<b>2.92</b>	B	<b>12.5</b>
EM-14-0.5'-DUP	5/14/2020	0 - 0.5		38	Duplicate	<b>2.14</b>	J	<b>2.80</b>	B	<b>14.0</b>
EM-15-0.5'	5/15/2020	0 - 0.5		26		<b>1.12</b>	J	<b>1.72</b>	J	<b>13.0</b>
EM-16-0.5'	5/15/2020	0 - 0.5		42		<b>1.00</b>	J	<b>1.33</b>	J	<b>14.0</b>
EM-17-0.5'	5/15/2020	0 - 0.5		47		<b>1.50</b>	J	<b>1.13</b>	J	<b>13.8</b>
EM-18-0.5'	5/15/2020	0 - 0.5		39		<b>3.29</b>		<b>2.35</b>		<b>11.2</b>
EM-19-0.5'	5/14/2020	0 - 0.5		167		<b>3.13</b>		<b>3.57</b>	B	<b>12.7</b>
EM-19-2'	5/14/2020	1.5 - 2		64		-	-	-	-	<b>38.4</b>
EM-20-0.5'	5/15/2020	0 - 0.5		58		<2.53	<b>2.07</b>	J	<b>20.5</b>	<b>95.2</b>
EM-20-2'	5/15/2020	1.5 - 2		10		-	-	-	-	<b>9.26</b>
EM-21-0.5'	5/14/2020	0 - 0.5		776		<b>10.0</b>		<b>6.12</b>		<b>7.16</b>
EM-21-0.5'-DUP	5/14/2020	0 - 0.5		776	Duplicate	<b>6.85</b>		<b>5.65</b>	B	<b>7.33</b>
EM-21-2'	5/14/2020	1.5 - 2		17		-	-	-	-	<b>9.52</b>
EM-22-0.5'	5/15/2020	0 - 0.5		100		<2.28	<b>2.39</b>		<b>12.3</b>	<b>92.6</b>
EM-22-2'	5/15/2020	1.5 - 2		17		-	-	-	-	<b>25.9</b>
EM-23-0.5'	5/15/2020	0 - 0.5		29		<b>0.932</b>	J	<b>1.24</b>	J	<b>12.8</b>
EM-24-0.5'	5/15/2020	0 - 0.5		33		<b>0.886</b>	J	<b>0.686</b>	J	<b>9.50</b>
EM-25-0.5'	5/15/2020	0 - 0.5		30		<b>0.786</b>	J	<b>0.810</b>	J	<b>12.2</b>
EM-26-0.5'	5/15/2020	0 - 0.5		19		<b>0.656</b>	J	<b>1.02</b>	J	<b>11.7</b>
EM-27-0.5'	5/15/2020	0 - 0.5		34		<b>1.02</b>	J	<b>0.823</b>	J	<b>13.6</b>
EM-28-0.5'	5/15/2020	0 - 0.5		29		<b>0.813</b>	J	<b>0.865</b>	J	<b>14.4</b>
EM-29-0.5'	5/15/2020	0 - 0.5		31		<b>0.720</b>	J	<b>1.02</b>	J	<b>10.8</b>
EM-30-0.5'	5/15/2020	0 - 0.5		31		<2.25		<b>2.52</b>		<b>21.9</b>
EM-31-0.5'	5/15/2020	0 - 0.5		33		<2.30		<b>2.07</b>	J	<b>9.94</b>
EM-32-0.5'	5/15/2020	0 - 0.5		18		<2.34		<b>2.01</b>	J	<b>13.8</b>
EM-33-0.5'	5/15/2020	0 - 0.5		17		<2.25		<b>2.23</b>	J	<b>8.74</b>

**Notes:**

Metals analyzed using USEPA Method 6010B.

Analytes detected above laboratory reporting limit are **emboldened**.

Analytes detected above Residential Screening Level are highlighted.

Background = Duverge, 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region. December.

HHRA Note 3 = DTSC, 2019. Human Health Risk Assessment (HHRA) Note Number 3. April.

USEPA RSLs = USEPA, 2020. Regional Screening Level (RSL) Summary Table (TR=1E-6, HQ=1). May.

DTSC = California Environmental Protection Agency, Department of Toxic Substances Control.

USEPA = United States Environmental Protection Agency.

bgs = Below ground surface.

mg/kg = Milligrams per kilogram.

- = Not analyzed.

B = The same analyte is found in the associated blank.

J = The identification of the analyte is acceptable; the reported value is an estimate.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

**Table A4**  
**Polycyclic Aromatic Hydrocarbons in Soil**  
Pogonip Farm and Garden  
Santa Cruz, California

Sample ID	Date	Sample Depth	Depth Clay Target Fragments Observed	Notes	ANTHRACENE	ACENAPHTHENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(C,H) PERYLENE	BENZO(K) FLUORANTHENE	CHRYSENE	DIBENZA(H) ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD) PYRENE	PHENANTHRENE	PYRENE	NAPHTHALENE	1-METHYL NAPHTHALENE	2-METHYL NAPHTHALENE
					(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					(feet bgs)	(feet bgs)															
<b>Residential Screening Level</b>																					
WM-C-5-0.5'	05/13/2020	0 - 0.5			<0.00645	<0.00645	0.00425	J 0.00642	J 0.00668	0.00606	J 0.00326	J 0.00552	J <0.00645	0.00445	J <0.00645	0.00467	J <0.00645	0.00486	J <0.0215	<0.0215	<0.0215
WM-C-6-0.5'	05/14/2020	0 - 0.5			<0.00644	<0.00644	<0.00644	<0.00644	J 0.00244	J <0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.00644	<0.0215	<0.0215	<0.0215
WM-C-7-0.5'	05/14/2020	0 - 0.5			<0.00752	<0.00752	0.00232	J 0.00283	J 0.00352	J 0.00295	J <0.00752	<0.00752	<0.00752	<0.00752	<0.00752	<0.00752	<0.00752	<0.00752	J <0.0251	<0.0251	<0.0251
WM-C-8-0.5'	05/14/2020	0 - 0.5			0.0273	0.0102	0.216	0.267	0.323	0.176	0.081	0.261	0.0532	0.340	J 0.0293	J 0.155	0.102	0.309	<0.0240	<0.0240	<0.0240
WM-C-8-2'	05/14/2020	1.5 - 2			<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.00741	<0.0247	<0.0247	<0.0247
WM-C-9A-1'	05/15/2020	0.5 - 1	0.5-1.5		0.231	0.0866	5.64	10.4	11.5	4.88	2.79	6.44	1.85	4.22	J 0.0319	J 4.99	<0.215	0.828	4.68	<0.215	<0.215
WM-C-9-2'	05/14/2020	1.5 - 2			<0.00717	<0.00717	0.0332	0.0608	0.0593	0.0545	0.0232	0.0412	0.0145	0.0272	<0.00717	0.0446	J 0.00582	J 0.0319	<0.0239	<0.0239	<0.0239
WM-C-10-0.5'	05/14/2020	0 - 0.5			0.0115	0.00499	J 0.121	0.185	0.192	0.131	0.0803	0.172	0.0395	0.162	<0.00706	0.112	0.0508	0.155	<0.0235	<0.0235	<0.0235
WM-C-10-2'	05/14/2020	1.5 - 2			0.0258	0.00645	J 0.175	0.243	0.298	0.179	0.0819	0.217	0.0506	0.268	J 0.00249	J 0.153	0.0736	0.229	<0.0217	<0.0217	<0.0217
WM-C-11-0.5'	05/13/2020	0 - 0.5			<0.00640	<0.00640	0.00257	J 0.00383	J 0.00553	J 0.00419	J <0.00640	0.00307	J <0.00640	0.00273	J <0.00640	0.00306	J <0.00640	0.0028	J <0.0213	<0.0213	<0.0213
WM-C-11-2'	05/13/2020	1.5 - 2			0.56	0.23	2.68	2.56	2.88	1.42	0.772	3.02	0.468	3.81	J 0.123	J 1.25	2.43	4.18	J 0.0112	J 0.0106	J 0.0215
WM-DG-1-0.5'	05/13/2020	0 - 0.5			<0.00687	<0.00687	<0.00687	<0.00687	0.00247	J <0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.0229	<0.0229	<0.0229
WM-DG-2-0.5'	05/13/2020	0 - 0.5			<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.0242	<0.0242	<0.0242
WM-DG-3-0.5'	05/13/2020	0 - 0.5			<0.00676	<0.00676	<0.00676	<0.00676	0.00267	J 0.00215	J <0.00676	<0.00676	<0.00676	<0.00676	<0.00676	<0.00676	<0.00676	<0.00676	<0.0225	<0.0225	<0.0225
WM-DG-4-0.5'	05/13/2020	0 - 0.5			<0.00726	<0.00726	<0.00726	0.0027	J 0.00347	J 0.00283	J <0.00726	<0.00726	<0.00726	<0.00726	<0.00726	<0.00726	<0.00726	<0.00726	<0.0242	<0.0242	<0.0242
WM-DG-5-0.5'	05/13/2020	0 - 0.5			<0.00733	<0.00733	<0.00733	0.00287	J 0.00256	J <0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.0244	<0.0244	<0.0244
WM-DG-6-0.5'	05/13/2020	0 - 0.5			0.131	0.0763	2.85	3.61	3.88	2.27	1.31	3.61	0.836	3.07	J 0.0173	J 2.03	0.633	3.23	J 0.00974	J 0.0111	J 0.0133
WM-DG-6-2'	05/13/2020	1.5 - 2			0.185	0.114	5.43	7.56	7.92	4.06	1.85	7.05	0.238	5.06	J 0.0248	J 3.58	0.942	6.73	J 0.0141	J 0.0162	J 0.0194
WM-DG-7-0.5'	05/13/2020	0 - 0.5			<0.00639	<0.00639	0.00345	J 0.00558	J 0.00635	J 0.00506	J <0.00639	0.00452	J <0.00639	0.00399	J <0.00639	0.00419	J <0.00639	0.00411	J <0.0213	<0.0213	<0.0213
WM-DG-8-0.5'	05/13/2020	0 - 0.5			<0.00730	<0.00730	0.0529	0.107	0.113	0.0893	0.0331	0.0669	0.0252	0.0409	<0.00730	0.0754	0.00898	0.0444	<0.0243	<0.0243	<0.0243
WM-DG-9-0.5'	05/13/2020	0 - 0.5			<0.00694	<0.00694	<0.00694	0.00271	J 0.00334	J 0.00272	J <0.00694	<0.00694	<0.00694	<0.00694	0.00213	J <0.00694	<0.00694	<0.0231	<0.0231	<0.0231	
WM-DG-10-0.5'	05/13/2020	0 - 0.5			<0.00690	<0.00690	0.00254	J 0.00254	J 0.00298	J <0.00690	<0.00690	0.00297	J <0.00690	0.00366	J <0.00690	<0.00690	<0.00690	0.00373	J <0.0230	<0.0230	<0.0230
WM-DG-11-0.5'	05/14/2020	0 - 0.5	0.5-1		<0.0242	<0.0242	0.041	0.0608	0.0665	0.0445	J 0.0224	J 0.0535	J 0.0115	J 0.0469	<0.0242	0.0371	J 0.0158	J 0.0477	<0.0804	<0.0804	<0.0804
WM-DG-11-0.5'-DUP																					

**Table A4**  
**Polycyclic Aromatic Hydrocarbons in Soil**  
 Pogonip Farm and Garden  
 Santa Cruz, California

Sample ID	Date	Sample Depth	Depth Clay Target Fragments Observed	Notes	ANTHRACENE	ACENAPHTHENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(C <sub>12</sub> H <sub>10</sub> ) PERYLENE	BENZO(K) FLUORANTHENE	CHRYSENE	DIBENZA(H) ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD) PYRENE	PHENANTHRENE	PYRENE	NAPHTHALENE	1-METHYL NAPHTHALENE	2-METHYL NAPHTHALENE
					(feet bgs)	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
<b>Residential Screening Level</b>					17,000	3,300	1.1	0.11	1.1	NE	11	110	0.028	2,400	2,300	1.1	NE	1,800	2.0	9.9	190
EM-21-0.5'	05/14/2020	0 - 0.5			<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.00646	<0.0215	<0.0215	<0.0215	
EM-21-0.5'-DUP	05/14/2020	0 - 0.5		Duplicate	<0.00650	<0.00650	<0.00650	<0.00650	<0.00650	<b>0.00183</b>	J	<0.00650	<0.00650	<0.00650	<0.00650	<0.00650	<0.00650	<0.0217	<0.0217	<0.0217	

**Notes:**

PAHs analyzed using USEPA Method 8270C-SIM.

Analytes detected above laboratory reporting limit are **emboldened**.

Analytes detected above Residential Screening Level are highlighted.

Residential Screening Levels are based on HHRA Note 3 values.

bgs = Below ground surface.

mg/kg = Milligrams per kilogram.

NE = Not Established.

PAHs = Polycyclic Aromatic Hydrocarbons.

SIM = Selective Ion Mode.

HHRA Note 3 = DTSC, 2019. Human Health Risk Assessment (HHRA) Note Number 3. April.

DTSC = California Environmental Protection Agency, Department of Toxic Substances Control.

J = The identification of the analyte is acceptable; the reported value is an estimate.

J3 = The associated batch QC was outside the established quality control range for precision.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

**Table 1**  
**Summary of Soil Analytical Results**  
**Pogonip Access Trail Evaluation**  
**333 Golf Club Dr. Santa Cruz**

*All soil results are in milligrams per Kilogram (mg/Kg)*

Sample Information			Lab Results
Sample Date	Sample ID	Depth (inches below ground surface)	Total Lead Concentrations (mg/kg)
March 11, 2021	B-1	surface	13.9
		18"	5.68
	B-2	surface	42.5
		18"	7.61
	B-3	surface	183
		18"	6.54
	B-4	surface	208
		18"	10.6
	B-5	surface	8.2
		18"	5.74
	B-6	surface	37.5
		18"	9.61
	B-7	surface	19
		18"	15.2
	B-8	surface	158
		18"	5.25
	B-9	surface	78
		18"	7.16
	B-10	surface	51.6
		18"	7.32
	B-11	surface	33.3
		18"	5.06
	B-12	surface	14.9
		18"	7
<b>Environmental Screening Levels (ESLs)</b> Residential / Commercial Land Uses (Construction Worker)			80 / 320 (160)

**Notes:**

**Environmental Screening Levels (ESLs):** Regional Water Quality Control Board (San Francisco Bay Region) guideline document: *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* (Final version, 2019). The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted  
[<https://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/ESL/new/ESL\\_Summary\\_Tables\\_24Jan19\\_Rev1.pdf>](https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/new/ESL_Summary_Tables_24Jan19_Rev1.pdf)

158	= green-shaded cell indicates detected concentration exceeds the ESL threshold limit for a residential land use
320	= red-shaded cell indicates detected concentration exceeds the ESL threshold limit for a residential land use

**B**

---

**CERTIFIED ANALYTICAL REPORTS**

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Date of Report: 03/17/2023

Matt Paulus

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Client Project: IMK808  
BCL Project: Soil Samples - Dry weight  
BCL Work Order: 2304623  
Invoice ID: B471672

Enclosed are the results of analyses for samples received by the laboratory on 3/7/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Eli Velazquez  
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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## Table of Contents

### **Sample Information**

Chain of Custody and Cooler Receipt form.....	4
Laboratory / Client Sample Cross Reference.....	10

### **Sample Results**

<b>2304623-01 - RRM-1-0.5</b>	
Chemical Analysis.....	14
Total Concentrations (TTLC).....	15
<b>2304623-02 - RRM-2-2</b>	
Chemical Analysis.....	16
Total Concentrations (TTLC).....	17
<b>2304623-03 - RRM-2-0.5</b>	
Chemical Analysis.....	18
Total Concentrations (TTLC).....	19
<b>2304623-04 - RRM-2-2</b>	
Chemical Analysis.....	20
Total Concentrations (TTLC).....	21
<b>2304623-05 - RRM-3-2</b>	
Chemical Analysis.....	22
Total Concentrations (TTLC).....	23
<b>2304623-06 - RRM-3-0.5</b>	
Chemical Analysis.....	24
Total Concentrations (TTLC).....	25
<b>2304623-07 - RRM-7-0.5</b>	
Chemical Analysis.....	26
Total Concentrations (TTLC).....	27
<b>2304623-08 - RRM-7-2</b>	
Chemical Analysis.....	28
Total Concentrations (TTLC).....	29
<b>2304623-09 - RRM-8-0.5</b>	
Chemical Analysis.....	30
Total Concentrations (TTLC).....	31
<b>2304623-10 - RRM-8-2</b>	
Chemical Analysis.....	32
Total Concentrations (TTLC).....	33
<b>2304623-11 - RRM-9-0.5</b>	
Chemical Analysis.....	34
Total Concentrations (TTLC).....	35
<b>2304623-12 - RRM-10-0.5</b>	
Chemical Analysis.....	36
Total Concentrations (TTLC).....	37
<b>2304623-13 - RRM-10-2</b>	
Chemical Analysis.....	38
Total Concentrations (TTLC).....	39
<b>2304623-14 - RRM-10 DUP-2</b>	
Chemical Analysis.....	40
Total Concentrations (TTLC).....	41
<b>2304623-15 - RRM-11-0.5</b>	
Chemical Analysis.....	42
Total Concentrations (TTLC).....	43
<b>2304623-16 - RRM-11-2</b>	
Chemical Analysis.....	44
Total Concentrations (TTLC).....	45
<b>2304623-17 - RRM-12-0.5</b>	
Chemical Analysis.....	46

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## Table of Contents

Total Concentrations (TTLC).....	47
<b>2304623-18 - RRM-12-2</b>	
Chemical Analysis.....	48
Total Concentrations (TTLC).....	49
<b>2304623-19 - RRM-4-0.5</b>	
Chemical Analysis.....	50
Total Concentrations (TTLC).....	51
<b>2304623-20 - RRM-4-2</b>	
Chemical Analysis.....	52
Total Concentrations (TTLC).....	53
<b>2304623-21 - RRM-5-0.5</b>	
Chemical Analysis.....	54
Total Concentrations (TTLC).....	55
<b>2304623-22 - RRM-5-2</b>	
Chemical Analysis.....	56
Total Concentrations (TTLC).....	57
<b>2304623-23 - RRM-6-0.5</b>	
Chemical Analysis.....	58
Total Concentrations (TTLC).....	59
<b>2304623-24 - RRM-6-2</b>	
Chemical Analysis.....	60
Total Concentrations (TTLC).....	61
<b>Quality Control Reports</b>	
<b>Chemical Analysis</b>	
Method Blank Analysis.....	62
Precision and Accuracy.....	63
<b>Total Concentrations (TTLC)</b>	
Method Blank Analysis.....	64
Laboratory Control Sample.....	65
Precision and Accuracy.....	66
<b>Notes</b>	
Notes and Definitions.....	67

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CHAIN-OF-CUSTODY Analytical Request Document												
<p>Submitting a sample via the chain of custody constitutes acknowledgement of acceptance of the sample by the laboratory.</p> <p>Conditions Board at: <a href="https://info.pacwest.com/han/pas-standard-forms.pdf">https://info.pacwest.com/han/pas-standard-forms.pdf</a></p> <p>Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</p>												
Company: <b>RRM</b>		Address: <b>2560 Soquel Ave, # 202</b>		Email To: <b>MATT PAULUS</b>		Site/City: <b>CA / Santa Cruz</b>		Time Zone Collected: <b>PDT</b>		Billing Information: <b>RRM</b>		
Report To: <b>MATT PAULUS</b>		Copy To: <b>MATT PAULUS</b>		Site Collecting Info/Address: <b>Pogonip Open Space, Santa Cruz</b>								
Customer Project Name/Number: <b>TMK 808</b>												
Phone: _____		Site/Facility ID #: _____		Compliance Monitoring? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
Email: _____		Purchase Order #: <b>TMK808</b>		DNW PWS ID #: _____		DNW Location Code: _____						
Collected By [print] <b>/ Paulus</b> Collected By [signature]: _____		Turnaround Date Required: _____		Immediately Packed on ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Sample Disposal: <input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive: _____ <input type="checkbox"/> Hold: _____		Rush: (Express Charges Apply) <input type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day		Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Analysis: _____						
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OI), Wipe (WP), Air (AR), Tissue (TS), Biomass (BI), Vapor (V), Other (OT)												
Customer Sample ID		Matrix *	Matrix *	Comp / Grab	Composite Start	Collected (or Composite End	Res	# of Ctrs	Container Type: Plastic (P) or Glass (G)			
Customer Sample ID		Matrix *	Matrix *	Grab	Date	Date	Time	Time				
<b>RRM-1-0.5'</b>	-1	<b>Soil</b>	<b>Grab</b>	<b>3/3/23</b>	<b>0849</b>				<b>5/9</b>			
<b>RRM-2-2'</b>	-2	"	"	"	"	"	"	"				
<b>RRM-2-0.5'-3'</b>	"	"	"	"	"	"	"	"				
<b>RRM-2-2'</b>	-4	"	"	"	"	"	"	"				
<b>RRM-3-0.5'-5'</b>	"	"	"	"	"	"	"	"				
<b>RRM-3-2'</b>	-6	"	"	"	"	"	"	"				
<b>RRM-7-0.5'-7'</b>	"	"	"	"	"	"	"	"				
<b>RRM-7-2'</b>	"	"	"	"	"	"	"	"				
<b>RRM-8-0.5'-9'</b>	"	"	"	"	"	"	"	"				
<b>RRM-8-2'</b>	-10	"	"	"	"	"	"	"				
Customer Remarks / Special Conditions / Possible Hazards: Packing Material Used: <b>All on dry weight basis.</b>												
Type of Ice Used: <b>Wet</b> <b>Dry</b> <b>None</b>												
SHORT HOLDS PRESENT (<72 hours): <b>Y</b> <b>N</b> <b>N/A</b>												
Lab Tracking #: _____												
Samples received via: FEDEX UPS Client Courier Pace Courier												
MTL LAB USE ONLY												
Relinquished by/Company: <b>[Signature]</b>		Date/Time: <b>3/10/23 1300</b>		Received by/Company: <b>[Signature]</b>		Date/Time: <b>3/23/23 1630</b>		Table #: <b>3</b>		Acctnum: _____		
Relinquished by/Company: <b>[Signature]</b>		Date/Time: _____		Received by/Company: <b>[Signature]</b>		Date/Time: _____		Template: _____		Comments: _____		
Relinquished by/Company: <b>[Signature]</b>		Date/Time: _____		Received by/Company: <b>[Signature]</b>		Date/Time: _____		Prelogn: _____		Comments: _____		
Relinquished by/Company: <b>[Signature]</b>		Date/Time: _____		Received by/Company: <b>[Signature]</b>		Date/Time: _____		PM: _____		Comments: _____		
Relinquished by/Company: <b>[Signature]</b>		Date/Time: _____		Received by/Company: <b>[Signature]</b>		Date/Time: _____		Page: _____		Comments: _____		
Trip Blank Received: <b>Y</b> <b>N</b> <b>NA</b>												
HLL MedOH TSP Other												
Non Conformance(s): <b>YES / NO</b> of _____												

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Submitting a sample via the chain of custody constitutes acknowledgement and acceptance of the Pace Terms and Conditions found at: <a href="https://pacelabs.com/policies/terms-and-conditions/">https://pacelabs.com/policies/terms-and-conditions/</a> Chained Custody is a LEGAL DOCUMENT - Complete all relevant fields											
Company:	RRM										
Address:	2560 Soquel Ave, #202										
Report To:	Email To: Matt Paulus										
Copy To:	Matt Paulus										
Customer Project Name/Number:	IMK 808										
Phone:	Site/Facility ID #: County/City: CA, Santa Cruz IPT: [ ] MTL: [ ] CTR: [ ] JET										
Email:	Purchase Order #: T1MK808 Compliance Monitoring? [ ] Yes [ ] No										
Collected By/On Behalf of:	Turnaround Date Required: DW PWIS ID #: DW Location Code: [ ] Yes [ ] No										
Collected By (Signature):											
Sample Disposal:	Rush: (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No										
[ ] Dispose as appropriate	[ ] Same Day [ ] Next Day										
[ ] Return	[ ] 2 Day [ ] 3 Day										
[ ] Archive	[ ] 4 Day [ ] 5 Day										
[ ] Hold	Analysis: _____										
• Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Vapor (V), Other (OT)											
Customer Sample ID	Matrix *	Composite / Grab	Collected (or Composite Start)	Date	Time	Date	Time	Res	# of Ctns	Comments:	
RPM-9-0.5-1	Soil	Grab	3/3/23	10:50				1	SSB		
RPM-10-0.5-12	Soil	Grab			H	11:25					
RPM-10-0-2-1	Soil	Grab			H	11:30					
RPM-10-DW-21-18	Soil	Grab			H	11:36					
RPM-11-0.5-15-4	Soil	Grab			H	11:45					
RPM-11-0.5-15-4	Soil	Grab			H	11:50					
RPM-12-0.5-14-11	Soil	Grab			H	12:00					
RPM-12-0.5-14-11	Soil	Grab			H	12:15					
RPM-12-21-18-H	Soil	Grab			H	12:47					
Customer Remarks /Special Hazards: <b>All on dry weight basis.</b>											
Type of Ice Used: Wet Blue* Dry None Packing Material Used: _____											
Radchem samples(s) screened (<500 ppm): Y N NA Samples received via: FedEx Client Counter Pace Courier Lab Tracking #: _____											
SHORT HOLD PRESENT (<72 hours): Y N N/A Lab Sample Temperature Info: Temp: Blank Received: Y N N/A Therm. TDR: _____ Coolers: 1 Trip Upon Receipt: _____ Cooler 1: Thermo Cont. Fridge: _____ Cooler 1: Corrected Temp: _____ Components: _____											
Relinquished by/Company: (Signature)	Date/Time: 3/6/23 13:45 Received by/Company: (Signature)										
Relinquished by/Company: (Signature)	Date/Time: Received by/Company: (Signature)										
Relinquished by/Company: (Signature)	Date/Time: Received by/Company: (Signature)										
MTM LAB USE ONLY Date/Time: 3-2-23 10:30 Table #: _____ Account: _____ Template: _____ Prelogin: _____ PM: _____ PB: _____ Non Conformance(s): _____ YES / NO _____ Page: _____ of _____											

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.

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Chain of Custody and Cooler Receipt Form for 2304623 Page 4 of 6

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 5						
Submission #: 23-04623										
<b>SHIPPING INFORMATION</b> Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>FREE LIQUID</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: Amber Thermometer ID: 337 Temperature: (A) 35 °C / (C) 3.9 °C		Date/Time 3-7-23 Analyst Init. SWATT/1030						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
OT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>										
OT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
50ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
OT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
OT EPA 503.6/503.3/505.1A										
OT EPA 515.1/515.1A										
OT EPA 525.2										
OT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz EPA 548.1										
OT EPA 549.2										
OT EPA 8015M										
OT EPA 8278C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A	A	
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: C-2 description JCS 5 "RRM ~1-2"

Sample Numbering Completed By: 102 Date/Time: 3/7/23 14:40

A = Actual / C = Corrected

Rev 23-0512022  
34WIPDwW#Pedot/LAB\_DOC\JDRHHS\QA\RECRev 20)

## Chain of Custody and Cooler Receipt Form for 2304623 Page 5 of 6

PACE ANALYTICAL		COOLER RECEIPT FORM							Page 2 Of 3	
Submission #: 23-04623										
<input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other (Specify) _____		<input checked="" type="checkbox"/> Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other (Specify) _____			<input type="checkbox"/> FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals <input type="checkbox"/> Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments:										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
<input checked="" type="checkbox"/> COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: Amber Thermometer ID: 337			Date/Time 3-7-23 Analyst Init. SWET/1030					
		Temperature: (A) 35 °C / (C) 3.4 °C								
SAMPLE CONTAINERS		SAMPLE NUMBERS								
		11	12	13	14	15	16	17	18	19
4oz/8oz/16oz PC UNPRES									20140	
2oz Cr <sup>2+</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz/8oz/16oz										
PT CYANIDE										
PT NITROGEN FORMAL										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
25ml VOA VIAL										
QT EPA 1464B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 50B6083/3031A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 5015M										
QT EPA 4270C										
8oz/16oz/32oz AMBER	A	A	A	A	A	A	A	A		
8oz/16oz/32oz JAR										
SOIL SLEEVES										
PCB VIAL										
PLASTIC BAG										
TEFLON BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By:

TOZ

Date/Time: 3/7/23 14:40

A = Actual / C = Corrected

Rev 23 06/20/22

[E:\INFO\Doc\Word\Perfected\All\_COC24\FORMS\MAINT\REC\Rev 23]

Chain of Custody and Cooler Receipt Form for 2304623 Page 6 of 6

PACE ANALYTICAL		COOLER RECEIPT FORM				Page 3 Of 3					
Submission #: 23-04623											
<b>SHIPPING INFORMATION</b> Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>FREE LIQUID</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: Amber Thermometer ID: 337		Date/Time 3-7-23 Temperature: (A) 35 °C / (C) 34 °C Analyst Init. SMH/1030							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr <sup>+</sup>											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
Phenolics											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 166-IB											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL-504											
QT EPA 508/G08.3/0081A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE		14	14	14	14						
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments:											
Sample Numbering Completed By:		TJR		Date/Time: 3/7/23 1440		Rev 23 05/20/22					
A = Actual / C = Corrected		[Signature]									

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304623-01	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-1-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 08:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-02	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-2-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 08:47 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-03	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-2-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 08:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-04	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-2-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 09:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-05	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-3-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 09:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-06	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-3-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 09:08 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-07	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-7-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 10:37 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

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2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304623-08	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-7-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 10:41 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-09	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-8-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 10:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-10	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-8-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 10:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-11	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-9-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 10:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-12	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-10-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 11:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-13	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-10-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 11:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-14	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-10 DUP-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 11:36 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

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2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304623-15	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-11-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 11:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-16	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-11-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 11:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-17	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-12-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 12:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-18	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-12-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 12:47 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-19	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-4-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 09:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-20	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-4-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 09:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-21	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-5-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 09:52 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304623-22	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-5-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 10:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-23	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-6-0.5 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 09:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2304623-24	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RRM-6-2 <b>Sampled By:</b> Kaempf/Paulus	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 10:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

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2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-01	Client Sample Name: RRM-1-0.5, 3/3/2023 8:40:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	21.3 (AR)	%	0.06	0.06	Calc	ND		1
Solids	78.7 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-01	Client Sample Name: RRM-1-0.5, 3/3/2023 8:40:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	10	mg/kg	0.32	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:20	ARD	PE-EL4	0.971	B161513	EPA 3050B

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-02	Client Sample Name:	RRM-2-2, 3/3/2023 8:47:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	24.5 (AR)	%	0.07	0.07	Calc	ND		1
Solids	75.5 (AR)	%	0.07	0.07	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-02	Client Sample Name: RRM-2-2, 3/3/2023 8:47:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	6.0	mg/kg	0.33	0.16	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:22	ARD	PE-EL4	0.935	B161513	EPA 3050B

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-03	Client Sample Name: RRM-2-0.5, 3/3/2023 8:55:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.0 (AR)	%	0.06	0.06	Calc	ND		1
Solids	81.0 (AR)	%	0.06	0.06	SM-2540G			2

DCN = Data Continuation Number

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-03	Client Sample Name: RRM-2-0.5, 3/3/2023 8:55:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	25	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:24	ARD	PE-EL4	0.917	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-04	Client Sample Name: RRM-2-2, 3/3/2023 9:00:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.1 (AR)	%	0.06	0.06	Calc	ND		1
Solids	80.9 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-04	Client Sample Name: RRM-2-2, 3/3/2023 9:00:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	6.7	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:26	ARD	PE-EL4	0.952	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-05	Client Sample Name: RRM-3-2, 3/3/2023 9:05:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	18.9 (AR)	%	0.06	0.06	Calc	ND		1
Solids	81.1 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-05	Client Sample Name: RRM-3-2, 3/3/2023 9:05:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	21	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:28	ARD	PE-EL4	0.926	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-06	Client Sample Name: RRM-3-0.5, 3/3/2023 9:08:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.9 (AR)	%	0.06	0.06	Calc	ND		1
Solids	80.1 (AR)	%	0.06	0.06	SM-2540G			2

DCN = Data Continuation Number

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-06	Client Sample Name: RRM-3-0.5, 3/3/2023 9:08:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	4.4	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:30	ARD	PE-EL4	0.935	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-07	Client Sample Name: RRM-7-0.5, 3/3/2023 10:37:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	12.2 (AR)	%	0.06	0.06	Calc	ND		1
Solids	87.8 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-07	Client Sample Name:	RRM-7-0.5, 3/3/2023 10:37:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	160	mg/kg	0.28	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:37	ARD	PE-EL4	0.962	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-08	Client Sample Name: RRM-7-2, 3/3/2023 10:41:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	15.7 (AR)	%	0.06	0.06	Calc	ND		1
Solids	84.3 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-08	Client Sample Name: RRM-7-2, 3/3/2023 10:41:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	8.2	mg/kg	0.30	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:39	ARD	PE-EL4	0.909	B161513	EPA 3050B

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-09	Client Sample Name: RRM-8-0.5, 3/3/2023 10:55:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	17.0 (AR)	%	0.06	0.06	Calc	ND		1
Solids	83.0 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-09	Client Sample Name: RRM-8-0.5, 3/3/2023 10:55:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	45	mg/kg	0.30	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:41	ARD	PE-EL4	0.962	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-10	Client Sample Name:	RRM-8-2, 3/3/2023 10:55:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	15.5 (AR)	%	0.06	0.06	Calc	ND		1
Solids	84.5 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-10	Client Sample Name: RRM-8-2, 3/3/2023 10:55:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	16	mg/kg	0.30	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 14:58	ARD	PE-EL4	1	B161513	EPA 3050B

DCN = Data Continuation Number

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**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-11	Client Sample Name: RRM-9-0.5, 3/3/2023 10:50:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	25.9 (AR)	%	0.07	0.07	Calc	ND		1
Solids	74.1 (AR)	%	0.07	0.07	SM-2540G			2

DCN = Data Continuation Number

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

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**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-11	Client Sample Name: RRM-9-0.5, 3/3/2023 10:50:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	160	mg/kg	0.34	0.16	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:43	ARD	PE-EL4	1	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-12	Client Sample Name:	RRM-10-0.5, 3/3/2023 11:25:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	18.6 (AR)	%	0.06	0.06	Calc	ND		1
Solids	81.4 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-12	Client Sample Name: RRM-10-0.5, 3/3/2023 11:25:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	190	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:45	ARD	PE-EL4	1	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-13	Client Sample Name: RRM-10-2, 3/3/2023 11:30:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	24.2 (AR)	%	0.07	0.07	Calc	ND		1
Solids	75.8 (AR)	%	0.07	0.07	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-13	Client Sample Name: RRM-10-2, 3/3/2023 11:30:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	7.1	mg/kg	0.33	0.16	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:47	ARD	PE-EL4	0.909	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-14	Client Sample Name: RRM-10 DUP-2, 3/3/2023 11:36:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	23.7 (AR)	%	0.07	0.07	Calc	ND		1
Solids	76.3 (AR)	%	0.07	0.07	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-14	Client Sample Name:	RRM-10 DUP-2, 3/3/2023 11:36:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	23	mg/kg	0.33	0.16	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:49	ARD	PE-EL4	0.909	B161513	EPA 3050B

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-15	Client Sample Name:	RRM-11-0.5, 3/3/2023 11:15:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	32.2 (AR)	%	0.07	0.07	Calc	ND		1
Solids	67.8 (AR)	%	0.07	0.07	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-15	Client Sample Name: RRM-11-0.5, 3/3/2023 11:15:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	160	mg/kg	0.37	0.18	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:56	ARD	PE-EL4	0.962	B161513	EPA 3050B

DCN = Data Continuation Number

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2560 Soquel Avenue, Suite 202  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-16	Client Sample Name: RRM-11-2, 3/3/2023 11:20:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	15.9 (AR)	%	0.06	0.06	Calc	ND		1
Solids	84.1 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-16	Client Sample Name: RRM-11-2, 3/3/2023 11:20:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	36	mg/kg	0.30	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 15:58	ARD	PE-EL4	1	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-17	Client Sample Name:	RRM-12-0.5, 3/3/2023 12:45:00PM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	25.3 (AR)	%	0.07	0.07	Calc	ND		1
Solids	74.7 (AR)	%	0.07	0.07	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-17	Client Sample Name: RRM-12-0.5, 3/3/2023 12:45:00PM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	130	mg/kg	0.33	0.16	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 16:00	ARD	PE-EL4	0.990	B161513	EPA 3050B

DCN = Data Continuation Number

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2560 Soquel Avenue, Suite 202  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-18	Client Sample Name: RRM-12-2, 3/3/2023 12:47:00PM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	21.2 (AR)	%	0.06	0.06	Calc	ND		1
Solids	78.8 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-18	Client Sample Name: RRM-12-2, 3/3/2023 12:47:00PM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	6.5	mg/kg	0.32	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 16:02	ARD	PE-EL4	0.971	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-19	Client Sample Name: RRM-4-0.5, 3/3/2023 9:40:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	16.6 (AR)	%	0.06	0.06	Calc	ND		1
Solids	83.4 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-19	Client Sample Name: RRM-4-0.5, 3/3/2023 9:40:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	20	mg/kg	0.30	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 16:04	ARD	PE-EL4	0.990	B161513	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-20	Client Sample Name:	RRM-4-2, 3/3/2023 9:40:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.9 (AR)	%	0.06	0.06	Calc	ND		1
Solids	80.1 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/16/23 08:09	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/15/23 07:40	03/16/23 06:45	DRC	MANUAL	1	B161894	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-20	Client Sample Name: RRM-4-2, 3/3/2023 9:40:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	5.2	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 16:06	ARD	PE-EL4	1	B161513	EPA 3050B

DCN = Data Continuation Number

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2560 Soquel Avenue, Suite 202  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-21	Client Sample Name: RRM-5-0.5, 3/3/2023 9:52:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	14.9 (AR)	%	0.06	0.06	Calc	ND		1
Solids	85.1 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/17/23 13:37	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/16/23 14:20	03/17/23 12:00	DRC	MANUAL	1	B162089	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-21	Client Sample Name:	RRM-5-0.5, 3/3/2023 9:52:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	38	mg/kg	0.29	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 11:48	KHS	PE-EL4	0.980	B161514	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-22	Client Sample Name: RRM-5-2, 3/3/2023 10:05:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	18.2 (AR)	%	0.06	0.06	Calc	ND		1
Solids	81.8 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/17/23 13:37	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/16/23 14:20	03/17/23 12:00	DRC	MANUAL	1	B162089	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-22	Client Sample Name:	RRM-5-2, 3/3/2023 10:05:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	7.9	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 11:50	KHS	PE-EL4	0.962	B161514	EPA 3050B

DCN = Data Continuation Number

RRM, Inc.  
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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-23	Client Sample Name: RRM-6-0.5, 3/3/2023 9:55:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.1 (AR)	%	0.06	0.06	Calc	ND		1
Solids	80.9 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/17/23 13:37	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/16/23 14:20	03/17/23 12:00	DRC	MANUAL	1	B162089	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-23	Client Sample Name: RRM-6-0.5, 3/3/2023 9:55:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	38	mg/kg	0.31	0.15	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 11:52	KHS	PE-EL4	0.952	B161514	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2304623-24	Client Sample Name: RRM-6-2, 3/3/2023 10:00:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	14.6 (AR)	%	0.06	0.06	Calc	ND		1
Solids	85.4 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/08/23 08:56	03/17/23 13:37	AMM	Calc	1	B161412	Calc
2	SM-2540G	03/16/23 14:20	03/17/23 12:00	DRC	MANUAL	1	B162089	SM 2540G

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2304623-24	Client Sample Name: RRM-6-2, 3/3/2023 10:00:00AM, Kaempf/Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Lead	8.3	mg/kg	0.29	0.14	EPA-6020	1000		1

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	
			Date/Time				Batch ID	Prep Method
1	EPA-6020	03/09/23 11:20	03/10/23 11:54	KHS	PE-EL4	0.926	B161514	EPA 3050B

DCN = Data Continuation Number

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
Moisture	B161412-BLK1	ND	%	0.05	0.05		1
<b>QC Batch ID: B161412</b>							

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161412-BLK1	PB	Calc	03/08/23	03/16/23 08:09	AMM	Calc	1

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	<u>Control Limits</u>		
									RPD	Percent Recovery	Lab Quals R#
<b>QC Batch ID: B161894</b>		Used client sample: Y - Description: RRM-1-0.5, 03/03/2023 08:40									
Solids	DUP	2304623-01	78.689	79.323		%	0.8		20		1
<b>QC Batch ID: B162089</b>		Used client sample: Y - Description: RRM-5-0.5, 03/03/2023 09:52									
Solids	DUP	2304623-21	85.140	84.800		%	0.4		20		2
<b>Run</b>											
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution			
1	B161894-DUP1	DUP	SM-2540G	03/15/23	03/16/23 06:45	DRC	MANUAL	1			
2	B162089-DUP1	DUP	SM-2540G	03/16/23	03/17/23 12:00	DRC	MANUAL	1			

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**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTL)C

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #	
<b>QC Batch ID: B161513</b>								
Lead	B161513-BLK1	ND	mg/kg	0.25	0.12		1	
<b>QC Batch ID: B161514</b>								
Lead	B161514-BLK1	ND	mg/kg	0.25	0.12		2	
<b>Run</b>								
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B161513-BLK1	PB	EPA-6020	03/09/23	03/10/23 14:56	ARD	PE-EL4	1
2	B161514-BLK1	PB	EPA-6020	03/09/23	03/10/23 10:57	KHS	PE-EL4	1

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**Project Manager:** Matt Paulus

## Total Concentrations (TTL)C

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	<u>Control Limits</u>			
								Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B161513											
Lead	B161513-BS1	LCS	26.822	25.000	mg/kg	107		75 - 125			1

QC Batch ID: B161514											
Lead	B161514-BS1	LCS	28.221	25.000	mg/kg	113		75 - 125			2

Run #	QC Sample ID	QC Type	Method	Run				Dilution
				Prep Date	Date Time	Analyst	Instrument	
1	B161513-BS1	LCS	EPA-6020	03/09/23	03/10/23 15:04	ARD	PE-EL4	1
2	B161514-BS1	LCS	EPA-6020	03/09/23	03/10/23 11:04	KHS	PE-EL4	1

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTL)C

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits																																																																																														
									RPD	Percent Recovery	Lab Quals	R#																																																																																											
<b>QC Batch ID: B161513</b>		Used client sample: Y - Description: RRM-8-2, 03/03/2023 10:55																																																																																																					
Lead	DUP	2304623-10	13.467	13.490		mg/kg	0.2		20			1																																																																																											
	MS	2304623-10	13.467	40.464	25.000	mg/kg		108		75 - 125		2																																																																																											
	MSD	2304623-10	13.467	39.294	25.000	mg/kg	2.9	103	20	75 - 125		3																																																																																											
<b>QC Batch ID: B161514</b>		Used client sample: N																																																																																																					
Lead	DUP	2304747-02	3.2105	3.2032		mg/kg	0.2		20			4																																																																																											
	MS	2304747-02	3.2105	33.113	25.000	mg/kg		120		75 - 125		5																																																																																											
	MSD	2304747-02	3.2105	31.645	25.000	mg/kg	4.5	114	20	75 - 125		6																																																																																											
<table border="1"> <thead> <tr> <th>Run #</th><th>QC Sample ID</th><th>QC Type</th><th>Method</th><th>Prep Date</th><th>Run Date Time</th><th>Analyst</th><th>Instrument</th><th>Dilution</th><th> </th><th> </th><th> </th><th> </th></tr> </thead> <tbody> <tr> <td>1</td><td>B161513-DUP1</td><td>DUP</td><td>EPA-6020</td><td>03/09/23</td><td>03/10/23 15:00</td><td>ARD</td><td>PE-EL4</td><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> <tr> <td>2</td><td>B161513-MS1</td><td>MS</td><td>EPA-6020</td><td>03/09/23</td><td>03/10/23 15:06</td><td>ARD</td><td>PE-EL4</td><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> <tr> <td>3</td><td>B161513-MSD1</td><td>MSD</td><td>EPA-6020</td><td>03/09/23</td><td>03/10/23 15:07</td><td>ARD</td><td>PE-EL4</td><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> <tr> <td>4</td><td>B161514-DUP1</td><td>DUP</td><td>EPA-6020</td><td>03/09/23</td><td>03/10/23 11:01</td><td>KHS</td><td>PE-EL4</td><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> <tr> <td>5</td><td>B161514-MS1</td><td>MS</td><td>EPA-6020</td><td>03/09/23</td><td>03/10/23 11:06</td><td>KHS</td><td>PE-EL4</td><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> <tr> <td>6</td><td>B161514-MSD1</td><td>MSD</td><td>EPA-6020</td><td>03/09/23</td><td>03/10/23 11:08</td><td>KHS</td><td>PE-EL4</td><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution					1	B161513-DUP1	DUP	EPA-6020	03/09/23	03/10/23 15:00	ARD	PE-EL4	1					2	B161513-MS1	MS	EPA-6020	03/09/23	03/10/23 15:06	ARD	PE-EL4	1					3	B161513-MSD1	MSD	EPA-6020	03/09/23	03/10/23 15:07	ARD	PE-EL4	1					4	B161514-DUP1	DUP	EPA-6020	03/09/23	03/10/23 11:01	KHS	PE-EL4	1					5	B161514-MS1	MS	EPA-6020	03/09/23	03/10/23 11:06	KHS	PE-EL4	1					6	B161514-MSD1	MSD	EPA-6020	03/09/23	03/10/23 11:08	KHS	PE-EL4	1																
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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 13:48  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

### Notes And Definitions

MDL Method Detection Limit  
ND Analyte Not Detected  
PQL Practical Quantitation Limit



Date of Report: 03/17/2023

Matt Paulus

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Client Project: IMK808  
BCL Project: Groundwaters  
BCL Work Order: 2304624  
Invoice ID: B471675

Enclosed are the results of analyses for samples received by the laboratory on 3/7/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Eli Velazquez".

---

Contact Person: Eli Velazquez  
Client Service Rep

---

Stuart Butram  
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

---

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## Table of Contents

### **Sample Information**

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	5

### **Sample Results**

<b>2304624-01 - RV-1</b>	
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	6
Metals Analysis.....	7
<b>2304624-02 - RV-2</b>	
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	8
Metals Analysis.....	9
<b>2304624-03 - RV-3</b>	
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	10
Metals Analysis.....	11

### **Quality Control Reports**

<b>Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)</b>	
Method Blank Analysis.....	12
Laboratory Control Sample.....	13
Precision and Accuracy.....	14
<b>Metals Analysis</b>	
Method Blank Analysis.....	16
Laboratory Control Sample.....	17
Precision and Accuracy.....	18

### **Notes**

Notes and Definitions.....	20
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Chain of Custody and Cooler Receipt Form for 2304624 Page 1 of 2

LAB USE ONLY. After Workorder/Login Label Here		MTM Log-in Number #																																	
<p><b>CHAIN-OF-CUSTODY Analytical Request Document</b></p> <p>Submitting a sample via this chain-of-custody constitutes acknowledgement and acceptance of the following terms and conditions found at: <a href="https://info.paceanalytical.com/documents/standard-terms-and-conditions">https://info.paceanalytical.com/documents/standard-terms-and-conditions</a></p> <p>Chain-Of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</p>																																			
<b>Company:</b> <b>RRM</b> <b>Address:</b> <b>2560 Soquel Ave, #202</b> <b>Report To:</b> <b>Matt Paulus</b> <b>Email To:</b> <b>Matt Paulus</b> <b>Copy To:</b> <b>Poyer open Space, Santa Cruz</b> <b>Billing Information:</b> <b>RRM</b>		<b>Container Preservative Type:</b> <b>None</b> / Lab																																	
<b>ALL BOLD OUTLINED AREAS are <b>2304624</b></b>																																			
<b>Customer Project Name/Number:</b> <b>IMK 808</b> <b>State/City:</b> <b>CA, Santa Cruz</b> <b>[P] L [MT] L [CT] L [ET]</b> <b>Site/Facility ID:</b> _____ <b>Time Zone Collected:</b> _____ <b>Compliance Monitoring?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Analyses</b> <b>Preservative Types:</b> <b>(1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium thiosulfate, (5) heptane, (A) acetic acid, (B) ammonium sulfate, (C) methanol, (D) sodium bisulfite, (E) sodium hydroxide, (F) TSP, (H) unspecified, (O) Other</b> <b>(G) ammonium bicarbonate, (I) TSP, (J) unspecified, (O) Other</b>																																	
<b>Phone:</b> _____ <b>Email:</b> _____ <b>Collected By (printy):</b> <b>Ramerri Paulus</b> <b>Collected By (signature):</b> _____		<b>Purchase Order #:</b> <b>IMK808</b> <b>DW PWS ID #:</b> _____ <b>DW Location Code:</b> _____ <b>Turnaround Date Required:</b> _____ <b>Immediately Parked on ice:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Field Filtered (if applicable):</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Rush:</b> <b>(Expedite charges apply)</b> <input type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> 12 Day <input type="checkbox"/> 13 Day <input type="checkbox"/> 14 Day <input type="checkbox"/> 15 Day <b>Analysis:</b> _____																																	
<b>Sample Disposal:</b> <input type="checkbox"/> Biodegrade as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive: _____ <input type="checkbox"/> Hold: <b>* Matrix Codes (Insert in Matrix box below):</b> Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Biassay (BI), Vapor (V), Other (OT)																																			
<b>Container Type:</b> <b>Plastic (P) or Glass (G)</b> <b>Comments:</b> _____																																			
<table border="1"> <thead> <tr> <th>Customer Sample ID</th> <th>Matrix *</th> <th>Comp *</th> <th>Grab</th> <th>Composite Start</th> <th>Composite End</th> <th>Res</th> <th># of Ctns</th> </tr> </thead> <tbody> <tr> <td>RV-1</td> <td>-1</td> <td>Water</td> <td>Grab</td> <td>13/23</td> <td>14/20</td> <td>No</td> <td>2</td> </tr> <tr> <td>RV-2</td> <td>-2</td> <td></td> <td>11</td> <td>11</td> <td>11</td> <td></td> <td></td> </tr> <tr> <td>RV-3</td> <td>-3</td> <td></td> <td>11</td> <td>11</td> <td>13/55</td> <td></td> <td></td> </tr> </tbody> </table>				Customer Sample ID	Matrix *	Comp *	Grab	Composite Start	Composite End	Res	# of Ctns	RV-1	-1	Water	Grab	13/23	14/20	No	2	RV-2	-2		11	11	11			RV-3	-3		11	11	13/55		
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RV-2	-2		11	11	11																														
RV-3	-3		11	11	13/55																														
<b>Customer Remarks / Special Conditions / Possible Hazards:</b> <b>Lab to filter all samples.</b>																																			
<b>RadChem sample(s) screened (&lt;500 ppm):</b> <b>Y N NA</b> <b>Date/Time:</b> <b>3/6/23 1245</b> <b>Received by/Company: (Signature)</b> <b>Received by/Company: (Signature)</b>																																			
<b>Relinquished by/Company: (Signature)</b> <b>Relinquished by/Company: (Signature)</b> <b>Relinquished by/Company: (Signature)</b>																																			
<b>Customer Sample Temperature Info:</b> <b>Temp Blank Received:</b> <b>Y N NA</b> <b>Therm. ID#:</b> _____ <b>Upon Receipt:</b> _____ <b>Cooler 1 Temp:</b> _____ <b>Cooler 1 Factor:</b> _____ <b>Cooler 2 Temp:</b> _____ <b>Cooler 2 Factor:</b> _____ <b>Comments:</b> _____																																			
<b>MTL LAB USE ONLY</b>																																			
<b>Lab Tracking #:</b> <b>1630</b> <b>Samples received via:</b> <b>FEDEX UPS</b> <b>Client:</b> _____ <b>Courier:</b> _____ <b>Pace Courier</b>		<b>Short Holds Present (&lt;72 hours):</b> <b>Y N N/A</b> <b>Lab Tracking #:</b> <b>1630</b> <b>Date/Time:</b> <b>3/7/23 1630</b> <b>Actnum:</b> _____ <b>Template:</b> _____ <b>Prelab:</b> _____ <b>PM:</b> _____ <b>PS:</b> _____																																	
<b>Non Conformance(s):</b> <b>YES / NO</b>		<b>Page:</b> _____ <b>af:</b> _____																																	
<b>Trip Blank Received:</b> <b>Y N NA</b> <b>HCl MeOH TSP Other</b>																																			

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## Chain of Custody and Cooler Receipt Form for 2304624 Page 2 of 2

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 1						
Submission #: 2304624										
<b>SHIPPING INFORMATION</b> Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify)		<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify)		<b>FREE LIQUID</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: Amber Thermometer ID: 337 Temperature: (A) 3.5 °C / (C) 3.4 °C		Date/Time: 3-7-23 Analyst Init: SMIT/1030						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QF PE UNPRES	A	A	A							
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>4+</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/603/33081A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 5015H										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER	B	B	B							
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: (-13 arrived with a broken lid.)

Sample Numbering Completed By: 102 Date/Time: 3/7/23

A = Actual / C = Corrected

Rev 23-05/20/22

[X:\WP\OneWord\Pace\LAB\_SOCSFORM\MSAMRECIEV 23]

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 15:04  
**Project:** Groundwaters  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2304624-01	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RV-1 <b>Sampled By:</b> Client	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 14:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water		
2304624-02	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RV-2 <b>Sampled By:</b> Client	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 14:12 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water		
2304624-03	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> RV-3 <b>Sampled By:</b> Client	<b>Receive Date:</b> 03/07/2023 10:30 <b>Sampling Date:</b> 03/03/2023 13:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water		

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID:	2304624-01	Client Sample Name:	RV-1, 3/3/2023 2:20:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	0.10	0.016	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.018	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.045	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.020	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.040	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.044	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.032	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.048	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.017	EPA-8270C-SIM	ND		1
Dibenz[a,h]anthracene	ND	ug/L	0.10	0.031	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.019	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.019	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.025	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.016	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.017	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.024	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	77.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	63.8	%	50 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	50.2	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC Batch ID	Prep Method
			Date	Time						
1	EPA-8270C-SIM	03/10/23 19:00	03/15/23 14:59			OLH	MS-B7	1	B161825	EPA 3510C

DCN = Data Continuation Number

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Metals Analysis

BCL Sample ID:	2304624-01	Client Sample Name:	RV-1, 3/3/2023 2:20:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Antimony	1.6	ug/L	2.0	0.23	EPA-6020	ND	J	1
Dissolved Arsenic	0.69	ug/L	2.0	0.38	EPA-6020	ND	J	1
Dissolved Barium	33	ug/L	1.0	0.066	EPA-6020	ND		1
Dissolved Beryllium	0.062	ug/L	1.0	0.050	EPA-6020	ND	J	1
Dissolved Cadmium	0.099	ug/L	1.0	0.034	EPA-6020	ND	J	1
Dissolved Chromium	0.71	ug/L	3.0	0.15	EPA-6020	0.17	J	1
Dissolved Cobalt	0.18	ug/L	1.0	0.011	EPA-6020	ND	J	1
Dissolved Copper	1.6	ug/L	2.0	0.32	EPA-6020	ND	J	1
Dissolved Lead	10	ug/L	1.0	0.021	EPA-6020	ND		1
Dissolved Mercury	0.15	ug/L	0.20	0.022	EPA-7470A	ND	J	2
Dissolved Molybdenum	0.041	ug/L	1.0	0.033	EPA-6020	ND	J	1
Dissolved Nickel	1.2	ug/L	2.0	0.15	EPA-6020	ND	J	1
Dissolved Selenium	ND	ug/L	10	1.2	EPA-6020	ND	A10	3
Dissolved Silver	ND	ug/L	1.0	0.015	EPA-6020	ND		1
Dissolved Thallium	ND	ug/L	1.0	0.025	EPA-6020	ND		1
Dissolved Vanadium	0.93	ug/L	3.0	0.39	EPA-6020	ND	J	1
Dissolved Zinc	8.2	ug/L	5.0	2.2	EPA-6020	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC	
							Batch ID	Prep Method
1	EPA-6020	03/09/23 06:00	03/09/23 12:10	KHS	PE-EL4	1	B161499	EPA 3005A
2	EPA-7470A	03/13/23 12:00	03/13/23 15:34	TMT	CETAC3	1	B161635	EPA 7470A
3	EPA-6020	03/09/23 06:00	03/09/23 13:07	KHS	PE-EL4	5	B161499	EPA 3005A

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID:	2304624-02	Client Sample Name:	RV-2, 3/3/2023 2:12:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	0.10	0.016	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.018	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.045	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.020	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.040	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.044	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.032	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.048	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.017	EPA-8270C-SIM	ND		1
Dibenz[a,h]anthracene	ND	ug/L	0.10	0.031	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.019	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.019	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.025	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.016	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.017	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.024	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	86.8	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	71.6	%	50 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	53.0	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-8270C-SIM	03/10/23 19:00	03/15/23 15:22	OLH	MS-B7	1	B161825	EPA 3510C

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Metals Analysis

BCL Sample ID:	2304624-02	Client Sample Name:	RV-2, 3/3/2023 2:12:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Antimony	2.6	ug/L	2.0	0.23	EPA-6020	ND		1
Dissolved Arsenic	0.66	ug/L	2.0	0.38	EPA-6020	ND	J	1
Dissolved Barium	29	ug/L	1.0	0.066	EPA-6020	ND		1
Dissolved Beryllium	0.073	ug/L	1.0	0.050	EPA-6020	ND	J	1
Dissolved Cadmium	0.25	ug/L	1.0	0.034	EPA-6020	ND	J	1
Dissolved Chromium	0.56	ug/L	3.0	0.15	EPA-6020	0.17	J	1
Dissolved Cobalt	0.17	ug/L	1.0	0.011	EPA-6020	ND	J	1
Dissolved Copper	1.9	ug/L	2.0	0.32	EPA-6020	ND	J	1
Dissolved Lead	20	ug/L	1.0	0.021	EPA-6020	ND		1
Dissolved Mercury	ND	ug/L	0.20	0.022	EPA-7470A	ND		2
Dissolved Molybdenum	0.042	ug/L	1.0	0.033	EPA-6020	ND	J	1
Dissolved Nickel	1.1	ug/L	2.0	0.15	EPA-6020	ND	J	1
Dissolved Selenium	ND	ug/L	10	1.2	EPA-6020	ND	A10	3
Dissolved Silver	ND	ug/L	1.0	0.015	EPA-6020	ND		1
Dissolved Thallium	ND	ug/L	1.0	0.025	EPA-6020	ND		1
Dissolved Vanadium	0.95	ug/L	3.0	0.39	EPA-6020	ND	J	1
Dissolved Zinc	8.2	ug/L	5.0	2.2	EPA-6020	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC	
							Batch ID	Prep Method
1	EPA-6020	03/09/23 06:00	03/09/23 12:47	KHS	PE-EL4	1	B161499	EPA 3005A
2	EPA-7470A	03/16/23 09:00	03/16/23 15:36	TMT	CETAC3	1	B162043	EPA 7470A
3	EPA-6020	03/09/23 06:00	03/09/23 13:19	KHS	PE-EL4	5	B161499	EPA 3005A

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 03/17/2023 15:04  
**Project:** Groundwaters  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID:	2304624-03	Client Sample Name:	RV-3, 3/3/2023 1:55:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	0.10	0.016	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.018	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.045	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.020	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.040	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.044	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.032	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.048	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.017	EPA-8270C-SIM	ND		1
Dibenz[a,h]anthracene	ND	ug/L	0.10	0.031	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.019	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.019	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.025	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.016	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.017	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.024	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	85.8	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	68.3	%	50 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	52.3	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-8270C-SIM	03/10/23 19:00	03/15/23 15:44	OLH	MS-B7	1	B161825	EPA 3510C

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Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Metals Analysis

BCL Sample ID:	2304624-03	Client Sample Name:	RV-3, 3/3/2023 1:55:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Antimony	2.3	ug/L	2.0	0.23	EPA-6020	ND		1
Dissolved Arsenic	0.83	ug/L	2.0	0.38	EPA-6020	ND	J	1
Dissolved Barium	32	ug/L	1.0	0.066	EPA-6020	ND		1
Dissolved Beryllium	0.062	ug/L	1.0	0.050	EPA-6020	ND	J	1
Dissolved Cadmium	0.53	ug/L	1.0	0.034	EPA-6020	ND	J	1
Dissolved Chromium	0.62	ug/L	3.0	0.15	EPA-6020	0.17	J	1
Dissolved Cobalt	0.17	ug/L	1.0	0.011	EPA-6020	ND	J	1
Dissolved Copper	2.1	ug/L	2.0	0.32	EPA-6020	ND		1
Dissolved Lead	16	ug/L	1.0	0.021	EPA-6020	ND		1
Dissolved Mercury	ND	ug/L	0.20	0.022	EPA-7470A	ND		2
Dissolved Molybdenum	ND	ug/L	1.0	0.033	EPA-6020	ND		1
Dissolved Nickel	1.2	ug/L	2.0	0.15	EPA-6020	ND	J	1
Dissolved Selenium	ND	ug/L	10	1.2	EPA-6020	ND	A10	3
Dissolved Silver	ND	ug/L	1.0	0.015	EPA-6020	ND		1
Dissolved Thallium	ND	ug/L	1.0	0.025	EPA-6020	ND		1
Dissolved Vanadium	0.91	ug/L	3.0	0.39	EPA-6020	ND	J	1
Dissolved Zinc	20	ug/L	5.0	2.2	EPA-6020	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC	
							Batch ID	Prep Method
1	EPA-6020	03/09/23 06:00	03/09/23 12:49	KHS	PE-EL4	1	B161499	EPA 3005A
2	EPA-7470A	03/16/23 09:00	03/16/23 15:51	TMT	CETAC3	1	B162043	EPA 7470A
3	EPA-6020	03/09/23 06:00	03/09/23 13:21	KHS	PE-EL4	5	B161499	EPA 3005A

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Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B161825</b>							
Acenaphthene	B161825-BLK1	ND	ug/L	0.10	0.016		1
Acenaphthylene	B161825-BLK1	ND	ug/L	0.10	0.018		1
Anthracene	B161825-BLK1	ND	ug/L	0.10	0.045		1
Benzo[a]anthracene	B161825-BLK1	ND	ug/L	0.10	0.020		1
Benzo[b]fluoranthene	B161825-BLK1	ND	ug/L	0.10	0.040		1
Benzo[k]fluoranthene	B161825-BLK1	ND	ug/L	0.10	0.044		1
Benzo[a]pyrene	B161825-BLK1	ND	ug/L	0.10	0.032		1
Benzo[g,h,i]perylene	B161825-BLK1	ND	ug/L	0.10	0.048		1
Chrysene	B161825-BLK1	ND	ug/L	0.10	0.017		1
Dibenz[a,h]anthracene	B161825-BLK1	ND	ug/L	0.10	0.031		1
Fluoranthene	B161825-BLK1	ND	ug/L	0.10	0.019		1
Fluorene	B161825-BLK1	ND	ug/L	0.10	0.019		1
Indeno[1,2,3-cd]pyrene	B161825-BLK1	ND	ug/L	0.10	0.025		1
Naphthalene	B161825-BLK1	ND	ug/L	0.10	0.016		1
Phenanthrene	B161825-BLK1	ND	ug/L	0.10	0.017		1
Pyrene	B161825-BLK1	ND	ug/L	0.10	0.024		1
Nitrobenzene-d5 (Surrogate)	B161825-BLK1	87.3	%	40 - 130 (LCL - UCL)			1
2-Fluorobiphenyl (Surrogate)	B161825-BLK1	86.7	%	50 - 130 (LCL - UCL)			1
p-Terphenyl-d14 (Surrogate)	B161825-BLK1	58.0	%	40 - 130 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B161825-BLK1	PB	EPA-8270C-SIM	03/10/23	03/13/23 12:25	OLH	MS-B7	1

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Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
<b>QC Batch ID: B161825</b>									
Acenaphthene	B161825-BS1	LCS	0.76931	1.0000	ug/L	76.9	60 - 110		1
Acenaphthylene	B161825-BS1	LCS	0.81967	1.0000	ug/L	82.0	60 - 120		1
Anthracene	B161825-BS1	LCS	0.84124	1.0000	ug/L	84.1	60 - 130		1
Benzo[a]anthracene	B161825-BS1	LCS	0.68094	1.0000	ug/L	68.1	60 - 130		1
Benzo[b]fluoranthene	B161825-BS1	LCS	0.83901	1.0000	ug/L	83.9	50 - 130		1
Benzo[k]fluoranthene	B161825-BS1	LCS	0.75481	1.0000	ug/L	75.5	60 - 120		1
Benzo[a]pyrene	B161825-BS1	LCS	0.70890	1.0000	ug/L	70.9	60 - 120		1
Benzo[g,h,i]perylene	B161825-BS1	LCS	0.86108	1.0000	ug/L	86.1	40 - 120		1
Chrysene	B161825-BS1	LCS	0.63743	1.0000	ug/L	63.7	60 - 110		1
Dibenzo[a,h]anthracene	B161825-BS1	LCS	0.79968	1.0000	ug/L	80.0	40 - 120		1
Fluoranthene	B161825-BS1	LCS	0.87929	1.0000	ug/L	87.9	60 - 120		1
Fluorene	B161825-BS1	LCS	0.77343	1.0000	ug/L	77.3	60 - 120		1
Indeno[1,2,3-cd]pyrene	B161825-BS1	LCS	0.86845	1.0000	ug/L	86.8	40 - 130		1
Naphthalene	B161825-BS1	LCS	0.76952	1.0000	ug/L	77.0	60 - 110		1
Phenanthrene	B161825-BS1	LCS	0.75373	1.0000	ug/L	75.4	60 - 120		1
Pyrene	B161825-BS1	LCS	0.63829	1.0000	ug/L	63.8	50 - 125		1
Nitrobenzene-d5 (Surrogate)	B161825-BS1	LCS	3.7148	4.0000	ug/L	92.9	40 - 130		1
2-Fluorobiphenyl (Surrogate)	B161825-BS1	LCS	3.3899	4.0000	ug/L	84.7	50 - 130		1
p-Terphenyl-d14 (Surrogate)	B161825-BS1	LCS	1.9655	4.0000	ug/L	49.1	40 - 130		1

Run #	QC Sample ID	QC Type	Method	Run					
				Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B161825-BS1	LCS	EPA-8270C-SIM	03/10/23	03/13/23 12:47	OLH	MS-B7	1	

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Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			R#	
								Percent Recovery	RPD	Percent Recovery		
<b>QC Batch ID: B161825</b>		Used client sample: N										
Acenaphthene	MS	2300342-03	ND	0.74962	1.0000	ug/L		75.0	30	60 - 110	1	
	MSD	2300342-03	ND	0.74342	1.0000	ug/L	0.8	74.3	30	60 - 110	2	
Acenaphthylene	MS	2300342-03	ND	0.78514	1.0000	ug/L		78.5	30	60 - 120	1	
	MSD	2300342-03	ND	0.79591	1.0000	ug/L	1.4	79.6	30	60 - 120	2	
Anthracene	MS	2300342-03	ND	0.78919	1.0000	ug/L		78.9	30	60 - 130	1	
	MSD	2300342-03	ND	0.81834	1.0000	ug/L	3.6	81.8	30	60 - 130	2	
Benzo[a]anthracene	MS	2300342-03	ND	0.71148	1.0000	ug/L		71.1	30	60 - 120	1	
	MSD	2300342-03	ND	0.62142	1.0000	ug/L	13.5	62.1	30	60 - 120	2	
Benzo[b]fluoranthene	MS	2300342-03	ND	0.68090	1.0000	ug/L		68.1	30	50 - 130	1	
	MSD	2300342-03	ND	0.81221	1.0000	ug/L	17.6	81.2	30	50 - 130	2	
Benzo[k]fluoranthene	MS	2300342-03	ND	0.71897	1.0000	ug/L		71.9	30	60 - 120	1	
	MSD	2300342-03	ND	0.67046	1.0000	ug/L	7.0	67.0	30	60 - 120	2	
Benzo[a]pyrene	MS	2300342-03	ND	0.62793	1.0000	ug/L		62.8	30	60 - 120	1	
	MSD	2300342-03	ND	0.65672	1.0000	ug/L	4.5	65.7	30	60 - 120	2	
Benzof[g,h,i]perylene	MS	2300342-03	ND	0.75901	1.0000	ug/L		75.9	30	40 - 120	1	
	MSD	2300342-03	ND	0.71405	1.0000	ug/L	6.1	71.4	30	40 - 120	2	
Chrysene	MS	2300342-03	ND	0.64567	1.0000	ug/L		64.6	30	60 - 110	1	
	MSD	2300342-03	ND	0.61332	1.0000	ug/L	5.1	61.3	30	60 - 110	2	
Dibenzo[a,h]anthracene	MS	2300342-03	ND	0.73874	1.0000	ug/L		73.9	30	40 - 120	1	
	MSD	2300342-03	ND	0.65568	1.0000	ug/L	11.9	65.6	30	40 - 120	2	
Fluoranthene	MS	2300342-03	ND	0.81586	1.0000	ug/L		81.6	30	60 - 120	1	
	MSD	2300342-03	ND	0.86589	1.0000	ug/L	5.9	86.6	30	60 - 120	2	
Fluorene	MS	2300342-03	ND	0.75976	1.0000	ug/L		76.0	30	60 - 120	1	
	MSD	2300342-03	ND	0.75511	1.0000	ug/L	0.6	75.5	30	60 - 120	2	
Indeno[1,2,3-cd]pyrene	MS	2300342-03	ND	0.69815	1.0000	ug/L		69.8	30	40 - 130	1	
	MSD	2300342-03	ND	0.77725	1.0000	ug/L	10.7	77.7	30	40 - 130	2	
Naphthalene	MS	2300342-03	ND	0.74244	1.0000	ug/L		74.2	30	60 - 110	1	
	MSD	2300342-03	ND	0.76710	1.0000	ug/L	3.3	76.7	30	60 - 110	2	
Phenanthrene	MS	2300342-03	ND	0.70338	1.0000	ug/L		70.3	30	60 - 120	1	
	MSD	2300342-03	ND	0.74238	1.0000	ug/L	5.4	74.2	30	60 - 120	2	
Pyrene	MS	2300342-03	ND	0.68937	1.0000	ug/L		68.9	30	50 - 125	1	
	MSD	2300342-03	ND	0.62879	1.0000	ug/L	9.2	62.9	30	50 - 125	2	
Nitrobenzene-d5 (Surrogate)	MS	2300342-03	ND	3.6022	4.0000	ug/L		90.1	30	40 - 130	1	
	MSD	2300342-03	ND	3.6181	4.0000	ug/L	0.4	90.5	30	40 - 130	2	
2-Fluorobiphenyl (Surrogate)	MS	2300342-03	ND	3.2713	4.0000	ug/L		81.8	30	50 - 130	1	
	MSD	2300342-03	ND	3.3623	4.0000	ug/L	2.7	84.1	30	50 - 130	2	

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RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		
									RPD	Percent Recovery	Lab Quals R#
<b>QC Batch ID: B161825</b>		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	2300342-03	ND	1.9983	4.0000	ug/L		50.0	40 - 130		1
	MSD	2300342-03	ND	1.7524	4.0000	ug/L	13.1	43.8	40 - 130		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time		Analyst	Instrument	Dilution
					Date	Time			
1	B161825-MS1	MS	EPA-8270C-SIM	03/10/23	03/13/23	13:10	OLH	MS-B7	1
2	B161825-MSD1	MSD	EPA-8270C-SIM	03/10/23	03/13/23	13:32	OLH	MS-B7	1

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Project Manager: Matt Paulus

## Metals Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #																																													
<b>QC Batch ID: B161499</b>																																																				
Dissolved Antimony	B161499-BLK1	ND	ug/L	2.0	0.23		1																																													
Dissolved Arsenic	B161499-BLK1	ND	ug/L	2.0	0.38		1																																													
Dissolved Barium	B161499-BLK1	ND	ug/L	1.0	0.066		1																																													
Dissolved Beryllium	B161499-BLK1	ND	ug/L	1.0	0.050		1																																													
Dissolved Cadmium	B161499-BLK1	ND	ug/L	1.0	0.034		1																																													
<b>Dissolved Chromium</b>	<b>B161499-BLK1</b>	<b>0.17200</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.15</b>	<b>J</b>	<b>1</b>																																													
Dissolved Cobalt	B161499-BLK1	ND	ug/L	1.0	0.011		1																																													
Dissolved Copper	B161499-BLK1	ND	ug/L	2.0	0.32		1																																													
Dissolved Lead	B161499-BLK1	ND	ug/L	1.0	0.021		1																																													
Dissolved Molybdenum	B161499-BLK1	ND	ug/L	1.0	0.033		1																																													
Dissolved Nickel	B161499-BLK1	ND	ug/L	2.0	0.15		1																																													
Dissolved Selenium	B161499-BLK2	ND	ug/L	2.0	0.25		2																																													
Dissolved Silver	B161499-BLK1	ND	ug/L	1.0	0.015		1																																													
Dissolved Thallium	B161499-BLK1	ND	ug/L	1.0	0.025		1																																													
Dissolved Vanadium	B161499-BLK1	ND	ug/L	3.0	0.39		1																																													
Dissolved Zinc	B161499-BLK1	ND	ug/L	5.0	2.2		1																																													
<b>QC Batch ID: B161635</b>																																																				
Dissolved Mercury	B161635-BLK1	ND	ug/L	0.20	0.022		3																																													
<b>QC Batch ID: B162043</b>																																																				
Dissolved Mercury	B162043-BLK1	ND	ug/L	0.20	0.022		4																																													
<table border="1"> <thead> <tr> <th>Run #</th> <th>QC Sample ID</th> <th>QC Type</th> <th>Method</th> <th>Prep Date</th> <th>Run Date Time</th> <th>Analyst</th> <th>Instrument</th> <th>Dilution</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B161499-BLK1</td> <td>PB</td> <td>EPA-6020</td> <td>03/09/23</td> <td>03/09/23 12:08</td> <td>KHS</td> <td>PE-EL4</td> <td>1</td> </tr> <tr> <td>2</td> <td>B161499-BLK2</td> <td>PB</td> <td>EPA-6020</td> <td>03/09/23</td> <td>03/09/23 12:08</td> <td>KHS</td> <td>PE-EL4</td> <td>1</td> </tr> <tr> <td>3</td> <td>B161635-BLK1</td> <td>PB</td> <td>EPA-7470A</td> <td>03/13/23</td> <td>03/13/23 15:10</td> <td>TMT</td> <td>CETAC3</td> <td>1</td> </tr> <tr> <td>4</td> <td>B162043-BLK1</td> <td>PB</td> <td>EPA-7470A</td> <td>03/16/23</td> <td>03/16/23 15:04</td> <td>TMT</td> <td>CETAC3</td> <td>1</td> </tr> </tbody> </table>								Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution	1	B161499-BLK1	PB	EPA-6020	03/09/23	03/09/23 12:08	KHS	PE-EL4	1	2	B161499-BLK2	PB	EPA-6020	03/09/23	03/09/23 12:08	KHS	PE-EL4	1	3	B161635-BLK1	PB	EPA-7470A	03/13/23	03/13/23 15:10	TMT	CETAC3	1	4	B162043-BLK1	PB	EPA-7470A	03/16/23	03/16/23 15:04	TMT	CETAC3	1
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution																																												
1	B161499-BLK1	PB	EPA-6020	03/09/23	03/09/23 12:08	KHS	PE-EL4	1																																												
2	B161499-BLK2	PB	EPA-6020	03/09/23	03/09/23 12:08	KHS	PE-EL4	1																																												
3	B161635-BLK1	PB	EPA-7470A	03/13/23	03/13/23 15:10	TMT	CETAC3	1																																												
4	B162043-BLK1	PB	EPA-7470A	03/16/23	03/16/23 15:04	TMT	CETAC3	1																																												

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Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Metals Analysis

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits			Lab Quals	Run #
							Percent Recovery	RPD	RPD		
<b>QC Batch ID: B161499</b>											
Dissolved Antimony	B161499-BS1	LCS	38.925	40.000	ug/L	97.3	75 - 125			1	
Dissolved Arsenic	B161499-BS1	LCS	99.326	100.00	ug/L	99.3	75 - 125			1	
Dissolved Barium	B161499-BS1	LCS	37.812	40.000	ug/L	94.5	75 - 125			1	
Dissolved Beryllium	B161499-BS1	LCS	40.289	40.000	ug/L	101	75 - 125			1	
Dissolved Cadmium	B161499-BS1	LCS	39.612	40.000	ug/L	99.0	75 - 125			1	
Dissolved Chromium	B161499-BS1	LCS	37.530	40.000	ug/L	93.8	75 - 125			1	
Dissolved Cobalt	B161499-BS1	LCS	37.033	40.000	ug/L	92.6	75 - 125			1	
Dissolved Copper	B161499-BS1	LCS	102.46	100.00	ug/L	102	75 - 125			1	
Dissolved Lead	B161499-BS1	LCS	98.452	100.00	ug/L	98.5	75 - 125			1	
Dissolved Molybdenum	B161499-BS1	LCS	36.732	40.000	ug/L	91.8	75 - 125			1	
Dissolved Nickel	B161499-BS1	LCS	95.093	100.00	ug/L	95.1	75 - 125			1	
Dissolved Selenium	B161499-BS2	LCS	98.323	100.00	ug/L	98.3	75 - 125			2	
Dissolved Silver	B161499-BS1	LCS	38.947	40.000	ug/L	97.4	75 - 125			1	
Dissolved Thallium	B161499-BS1	LCS	38.371	40.000	ug/L	95.9	75 - 125			1	
Dissolved Vanadium	B161499-BS1	LCS	37.167	40.000	ug/L	92.9	75 - 125			1	
Dissolved Zinc	B161499-BS1	LCS	101.26	100.00	ug/L	101	75 - 125			1	
<b>QC Batch ID: B161635</b>											
Dissolved Mercury	B161635-BS1	LCS	0.90250	1.0000	ug/L	90.2	85 - 115			3	
<b>QC Batch ID: B162043</b>											
Dissolved Mercury	B162043-BS1	LCS	1.0025	1.0000	ug/L	100	85 - 115			4	

Run #	QC Sample ID	QC Type	Method	Run				Instrument	Dilution
				Prep Date	Date Time	Analyst			
1	B161499-BS1	LCS	EPA-6020	03/09/23	03/09/23 12:16	KHS	PE-EL4	1	
2	B161499-BS2	LCS	EPA-6020	03/09/23	03/09/23 12:16	KHS	PE-EL4	1	
3	B161635-BS1	LCS	EPA-7470A	03/13/23	03/13/23 15:12	TMT	CETAC3	1	
4	B162043-BS1	LCS	EPA-7470A	03/16/23	03/16/23 15:12	TMT	CETAC3	1	

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## Metals Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			R#
								Percent Recovery	RPD	Percent Recovery	
<b>QC Batch ID: B161499</b>		Used client sample: Y - Description: RV-1, 03/03/2023 14:20									
Dissolved Antimony	DUP	2304624-01	1.5640	1.6170		ug/L	3.3		20		J 1
	MS	2304624-01	1.5640	44.642	40.816	ug/L		106		75 - 125	2
	MSD	2304624-01	1.5640	45.358	40.816	ug/L	1.6	107	20	75 - 125	3
Dissolved Arsenic	DUP	2304624-01	0.69400	0.75400		ug/L	8.3		20		J 1
	MS	2304624-01	0.69400	114.85	102.04	ug/L		112		75 - 125	2
	MSD	2304624-01	0.69400	116.31	102.04	ug/L	1.3	113	20	75 - 125	3
Dissolved Barium	DUP	2304624-01	33.054	32.488		ug/L	1.7		20		1
	MS	2304624-01	33.054	75.256	40.816	ug/L		103		75 - 125	2
	MSD	2304624-01	33.054	74.366	40.816	ug/L	1.2	101	20	75 - 125	3
Dissolved Beryllium	DUP	2304624-01	0.062000	0.063000		ug/L	1.6		20		J 1
	MS	2304624-01	0.062000	47.663	40.816	ug/L		117		75 - 125	2
	MSD	2304624-01	0.062000	48.883	40.816	ug/L	2.5	120	20	75 - 125	3
Dissolved Cadmium	DUP	2304624-01	0.099000	0.081000		ug/L	20.0		20		J 1
	MS	2304624-01	0.099000	44.383	40.816	ug/L		108		75 - 125	2
	MSD	2304624-01	0.099000	45.494	40.816	ug/L	2.5	111	20	75 - 125	3
Dissolved Chromium	DUP	2304624-01	0.71000	0.70500		ug/L	0.7		20		J 1
	MS	2304624-01	0.71000	39.216	40.816	ug/L		94.3		75 - 125	2
	MSD	2304624-01	0.71000	39.495	40.816	ug/L	0.7	95.0	20	75 - 125	3
Dissolved Cobalt	DUP	2304624-01	0.18300	0.17000		ug/L	7.4		20		J 1
	MS	2304624-01	0.18300	38.309	40.816	ug/L		93.4		75 - 125	2
	MSD	2304624-01	0.18300	38.428	40.816	ug/L	0.3	93.7	20	75 - 125	3
Dissolved Copper	DUP	2304624-01	1.5540	1.5300		ug/L	1.6		20		J 1
	MS	2304624-01	1.5540	103.04	102.04	ug/L		99.5		75 - 125	2
	MSD	2304624-01	1.5540	101.82	102.04	ug/L	1.2	98.3	20	75 - 125	3
Dissolved Lead	DUP	2304624-01	10.443	10.233		ug/L	2.0		20		1
	MS	2304624-01	10.443	110.06	102.04	ug/L		97.6		75 - 125	2
	MSD	2304624-01	10.443	108.19	102.04	ug/L	1.7	95.8	20	75 - 125	3
Dissolved Molybdenum	DUP	2304624-01	0.041000	0.043000		ug/L	4.8		20		J 1
	MS	2304624-01	0.041000	37.132	40.816	ug/L		90.9		75 - 125	2
	MSD	2304624-01	0.041000	37.850	40.816	ug/L	1.9	92.6	20	75 - 125	3
Dissolved Nickel	DUP	2304624-01	1.1650	1.1070		ug/L	5.1		20		J 1
	MS	2304624-01	1.1650	98.566	102.04	ug/L		95.5		75 - 125	2
	MSD	2304624-01	1.1650	100.04	102.04	ug/L	1.5	96.9	20	75 - 125	3
Dissolved Selenium	DUP	2304624-01	ND	ND		ug/L			20		4
	MS	2304624-01	ND	526.02	510.20	ug/L		103		75 - 125	5
	MSD	2304624-01	ND	517.89	510.20	ug/L	1.6	102	20	75 - 125	6
Dissolved Silver	DUP	2304624-01	ND	ND		ug/L			20		1
	MS	2304624-01	ND	40.710	40.816	ug/L		99.7		75 - 125	2
	MSD	2304624-01	ND	40.673	40.816	ug/L	0.1	99.7	20	75 - 125	3

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## Metals Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits																																																																																																																																																	
								Percent Recovery	Percent Recovery	Lab Quals R#																																																																																																																																															
<b>QC Batch ID: B161499</b>		Used client sample: Y - Description: RV-1, 03/03/2023 14:20																																																																																																																																																							
Dissolved Thallium	DUP	2304624-01	ND	ND		ug/L		20		1																																																																																																																																															
	MS	2304624-01	ND	41.223	40.816	ug/L		101	75 - 125	2																																																																																																																																															
	MSD	2304624-01	ND	39.799	40.816	ug/L	3.5	97.5	20	75 - 125																																																																																																																																															
Dissolved Vanadium	DUP	2304624-01	0.92700	0.82700		ug/L	11.4	20	J	1																																																																																																																																															
	MS	2304624-01	0.92700	39.154	40.816	ug/L		93.7	75 - 125	2																																																																																																																																															
	MSD	2304624-01	0.92700	39.283	40.816	ug/L	0.3	94.0	20	75 - 125																																																																																																																																															
Dissolved Zinc	DUP	2304624-01	8.1730	8.6020		ug/L	5.1	20		1																																																																																																																																															
	MS	2304624-01	8.1730	128.43	102.04	ug/L		118	75 - 125	2																																																																																																																																															
	MSD	2304624-01	8.1730	128.22	102.04	ug/L	0.2	118	20	75 - 125																																																																																																																																															
<b>QC Batch ID: B161635</b>		Used client sample: N																																																																																																																																																							
Dissolved Mercury	DUP	2304441-03	0.043500	0.034250		ug/L	23.8	20	J,Q01	7																																																																																																																																															
	MS	2304441-03	0.043500	1.1000	1.0000	ug/L		106	70 - 130	8																																																																																																																																															
	MSD	2304441-03	0.043500	0.87250	1.0000	ug/L	23.1	82.9	20	70 - 130																																																																																																																																															
<b>QC Batch ID: B162043</b>		Used client sample: N																																																																																																																																																							
Dissolved Mercury	DUP	2304792-01	ND	ND		ug/L		20		10																																																																																																																																															
	MS	2304792-01	ND	0.95250	1.0000	ug/L		95.2	70 - 130	11																																																																																																																																															
	MSD	2304792-01	ND	1.0975	1.0000	ug/L	14.1	110	20	70 - 130																																																																																																																																															
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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.

All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Reported: 03/17/2023 15:04  
Project: Groundwaters  
Project Number: IMK808  
Project Manager: Matt Paulus

## Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.
Q01	Sample precision is not within the control limits.
Q03	Matrix spike recovery(s) was(were) not within the control limits.

Date of Report: 04/18/2023

Matt Paulus

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

Client Project: IMK808  
BCL Project: Soil Samples - Dry weight  
BCL Work Order: 2305048  
Invoice ID: B471976, B473946

Enclosed are the results of analyses for samples received by the laboratory on 3/10/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001411124

Sincerely,



Contact Person: Eli Velazquez  
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

## Table of Contents

### **Sample Information**

Chain of Custody and Cooler Receipt form.....	4
Laboratory / Client Sample Cross Reference.....	13

### **Sample Results**

<b>2305048-05 - Composite of LSP-1-0.5, LSP-2-0.5, LSP-3-0.5, LSP-4-0.5</b>	
Chemical Analysis.....	19
WET Test (STLC).....	20
TCLP Toxicity.....	21
Total Concentrations (TTLC).....	22
<b>2305048-10 - Composite of LSP-1-2', LSP-2-2', LSP-3-2', LSP-4-2'</b>	
Chemical Analysis.....	23
Total Concentrations (TTLC).....	24
<b>2305048-15 - Composite of LSP-5-0.5', LSP-6-0.5', LSP-7-0.5', LSP-8-0.5'</b>	
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	25
Chemical Analysis.....	26
Total Concentrations (TTLC).....	27
<b>2305048-20 - Composite of LSP-5-2', LSP-6-2', LSP-7-2', LSP-8-2'</b>	
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	28
Chemical Analysis.....	29
Total Concentrations (TTLC).....	30
<b>2305048-25 - Composite of LSP-9-0.5, LSP-10-0.5, LSP-11-0.5, LSP-12-0.5</b>	
Chemical Analysis.....	31
WET Test (STLC).....	32
TCLP Toxicity.....	33
Total Concentrations (TTLC).....	34
<b>2305048-30 - Composite of LSP-9-2', LSP-10-2', LSP-11-2', LSP-12-2'</b>	
Chemical Analysis.....	35
WET Test (STLC).....	36
TCLP Toxicity.....	37
Total Concentrations (TTLC).....	38
<b>2305048-35 - Composite of LSP-13-0.5', LSP-14-0.5', LSP-15-0.5', LSP-16-0</b>	
Chemical Analysis.....	39
WET Test (STLC).....	40
TCLP Toxicity.....	41
Total Concentrations (TTLC).....	42
<b>2305048-40 - Composite of LSP-13-2', LSP-14-2', LSP-15-2', LSP-16-2'</b>	
Chemical Analysis.....	43
Total Concentrations (TTLC).....	44
<b>2305048-41 - WTL-1-0.5'</b>	
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	45
Chemical Analysis.....	46
Total Concentrations (TTLC).....	47

### **Quality Control Reports**

<b>Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)</b>	
Method Blank Analysis.....	48
Laboratory Control Sample.....	49
Precision and Accuracy.....	50
<b>Chemical Analysis</b>	
Method Blank Analysis.....	52
Precision and Accuracy.....	53
<b>WET Test (STLC)</b>	
Method Blank Analysis.....	54
Laboratory Control Sample.....	55
Precision and Accuracy.....	56

## Table of Contents

<b>TCLP Toxicity</b>	
Method Blank Analysis.....	57
Laboratory Control Sample.....	58
Precision and Accuracy.....	59
<b>Total Concentrations (TTLC)</b>	
Method Blank Analysis.....	60
Laboratory Control Sample.....	62
Precision and Accuracy.....	64
<b>Notes</b>	
Notes and Definitions.....	69

<b>CHAIN-OF-CUSTODY Analytical Request Document</b> Submitting a sample via the chain of custody establishes acknowledgement and acceptance of the pace terms and conditions found at: <a href="https://www.pacelabs.com/hubfs/standard-terms.pdf">https://www.pacelabs.com/hubfs/standard-terms.pdf</a> <b>Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</b>		<b>ALL BOLD OUTLINED AREA: 2305048</b>	
<b>Company:</b> <b>RPM</b> <b>Address:</b> <b>2560 Soquel Ave, #202</b> <b>Report To:</b> <b>Matt Paulus</b> <b>Email To:</b> <b>Matt Paulus</b> <b>Sig Collection Info/Address:</b> <b>City of Pohono Open Space, Santa Cruz</b> <b>Customer Project Name/Number:</b> <b>TMK 808</b> <b>Phone:</b> <b>(831) 227-1148</b> <b>Site/Facility ID #:</b> <b>Email:</b> <b>Mpaulus@pacelabs.co</b> <b>Collected By (initials):</b> <b>Karen Paulus</b> <b>Purchase Order #: TMK808</b> <b>Collector Signature:</b>  <b>Sample Disposal:</b> <input checked="" type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive <input type="checkbox"/> Hold: 		<b>Billing Information:</b> <b>RPM</b> <b>Container Preservative Type:</b> <b>None</b> <b>Preservative Types:</b> (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium thiosulfate, (8) heptane, (9) hexane, (10) isopropanol, (11) ammonium sulfate, (12) ammonium hydroxide, (13) TSP, (14) Unpreserved, (15) Other	
<b>State:</b> <b>CA</b> <b>County/City:</b> <b>Santa Cruz</b> <b>Time Zone Collected:</b> <b>DIN PWS ID #:</b> <b>Compliance Monitoring?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>DIN Location Code:</b> <b>Turnaround Date Required:</b> <b>Rush: (Expedite charges apply)</b> <input type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> 12 Day <input type="checkbox"/> 13 Day <input type="checkbox"/> 14 Day <input type="checkbox"/> 15 Day <b>Analysis:</b> _____		<b>Analysts</b> <b>Lab Profile/Line:</b> <b>Lab Sample Receipt Checklist:</b> <input checked="" type="checkbox"/> Custody Seal Present / Intact <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Custody Signature Present <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Collector Signature Present <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Bottles Intact <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Correct Bottles <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Sufficient Volume <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Samples Received on Ice <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> VOC - Headspace Acceptable <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> USDA Recalibrated Seals <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Samples in Holding Time <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Residual Chlorine Present <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> GL Strips: <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Sample pH Acceptable <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Self Strips: <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Surface Present <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Sea Acetate Strips: <input type="checkbox"/> Y <input type="checkbox"/> N <b>Lab USE ONLY:</b> <b>Lab Sample #: Content:</b> _____	
<b>* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bleach (BL), Vapor (V), Other (OT)</b>		<b>Led by TECP</b> <b>PAHs by 8270 SIMS</b> <b>TLC &gt; 50mg/L</b> <b>Led by STLC (if Pb by 8270 SIMS)</b> <b>CAM 17 Metals</b> <b>Led by TECP</b> <b>CHK BY</b> <b>DISTRIBUTION</b> <b>CHK BY</b> <b>SUB OUT</b>	
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<b>Customer Sample ID</b> <b>LPS-1 - 0.5'</b> <b>LPS-2 - 0.5'</b> <b>LPS-3 - 0.5'</b> <b>LPS-4 - 0.5'</b> <b>LPS-1 - 2'</b> <b>LPS-2 - 2'</b> <b>LPS-3 - 2'</b> <b>LPS-4 - 2'</b> <b>Customer Remarks / Special Conditions / Possible Hazards:</b> <b>COMPOSITE SAMPLES IN LAB AS INSTRUMENTED. DO NOT RUN SINGLE SAMPLES.</b> <b>Relinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b> <b>Reinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b>		<b>Customer Sample ID</b> <b>LPS-1 - 0.5'</b> <b>LPS-2 - 0.5'</b> <b>LPS-3 - 0.5'</b> <b>LPS-4 - 0.5'</b> <b>LPS-1 - 2'</b> <b>LPS-2 - 2'</b> <b>LPS-3 - 2'</b> <b>LPS-4 - 2'</b> <b>Customer Remarks / Special Conditions / Possible Hazards:</b> <b>COMPOSITE SAMPLES IN LAB AS INSTRUMENTED. DO NOT RUN SINGLE SAMPLES.</b> <b>Relinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b> <b>Reinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b>	
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<b>Customer Sample ID</b> <b>LPS-1 - 0.5'</b> <b>LPS-2 - 0.5'</b> <b>LPS-3 - 0.5'</b> <b>LPS-4 - 0.5'</b> <b>LPS-1 - 2'</b> <b>LPS-2 - 2'</b> <b>LPS-3 - 2'</b> <b>LPS-4 - 2'</b> <b>Customer Remarks / Special Conditions / Possible Hazards:</b> <b>COMPOSITE SAMPLES IN LAB AS INSTRUMENTED. DO NOT RUN SINGLE SAMPLES.</b> <b>Relinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b> <b>Reinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b>		<b>Customer Sample ID</b> <b>LPS-1 - 0.5'</b> <b>LPS-2 - 0.5'</b> <b>LPS-3 - 0.5'</b> <b>LPS-4 - 0.5'</b> <b>LPS-1 - 2'</b> <b>LPS-2 - 2'</b> <b>LPS-3 - 2'</b> <b>LPS-4 - 2'</b> <b>Customer Remarks / Special Conditions / Possible Hazards:</b> <b>COMPOSITE SAMPLES IN LAB AS INSTRUMENTED. DO NOT RUN SINGLE SAMPLES.</b> <b>Relinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b> <b>Reinquished by/Company: (Signature)</b> <b>RPM</b> <b>Date/Tming</b> <b>3/9/23</b> <b>110</b> <b>Received by/Company: (Signature)</b> <b>None</b>	
<b>Customer Sample ID</b> <b>LPS-1 - 0.5'</b> <b>LPS-2 - 0.5'</b> <b>LPS-3 - 0.5'</b> <b>LPS-4 - 0.5'</b> <b>LPS-1 - 2'</b> <b>LPS-2 - 2'</b> <b>LPS-3 - 2'</b> <b>LPS-4 - 2'</b> <b>Customer Remarks / Special Conditions / Possible</b>			

CHAIN-OF-CUSTODY Analytical Request Document									
<p>Submitting a sample via this chain of custody contributes acknowledgement and acceptance of the following terms and conditions found at <a href="https://nrlc.srmis.com/termsandconditions.html">https://nrlc.srmis.com/termsandconditions.html</a></p> <p>Chain-of-Custody is a LEGAL DOCUMENT - Complying all relevant laws</p>									
Company: <b>RRM</b>		Address: <b>2560 Soquel Ave, # 202</b>		Report To: <b>MATT PAULUS</b>		Email To: <b>MATT PAULUS</b>		Billing Information:	
Customer Project Name/Number: <b>TMK 808</b>		Site/City: <b>City of Pogonip Open Space, Santa Cruz</b>		Sign Collecting Info/Address:		Phone: <b>(831) 227-4449</b>		Site/City: <b>CA / Santa Cruz</b>	
Phone: <b>(831) 227-4449</b>		Site/Facility ID #: <b>TMK808</b>		Purchase Order #: <b>TMK808</b>		Email: <b>MattPaulus@rrmsc.co</b>		Time Zone Collected:	
Collected By (print): <b>Rammek Paulus</b>		Turnaround Date Required:		Rush: (Expedite Charges Apply)		Compliance Monitoring?		Container Preservative Type **	
Collection Method:				<input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 15 Day		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Field Filtered (if applicable): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Sulfuric Acid <input type="checkbox"/> Methanol <input type="checkbox"/> Ammonium Hydroxide <input type="checkbox"/> Other	
Sample Disposal:								Analyses	
<input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input checked="" type="checkbox"/> Hold: _____								PAHs by 8270 SIMS Lead by STLC (if Pb by 8270) _____	
Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)									
Customer Sample ID      Matrix #      Comp / Grab      Collected (or Composite Start)      Composite End      Res      # of Cnts      Container Type: Plastic (P) or Glass (G)									
LPS-5-0-5'	Soil	9/6/0	3/8/23 1048	110	1105	3	33155	Customer Remarks / Possible Hazards:	
LPS-6-0-5'				1100	1105	1		Composite Samples in LAB AS INSTRUCTED, Do NOT RUN SINGLE SAMPLES	
LPS-7-0-5'				1105	1105	1			
LPS-8-0-5'				1105	1105	1			
LPS-5-2'	Soil	9/6/0	3/8/23 1050	1102	1105	3	33155		
LPS-6-2'				1105	1105	1			
LPS-7-2'				1105	1105	1			
LPS-8-2'				1105	1105	1			
Reinstated by Company: <b>RRM</b> Received by Company: <b>RRM</b> Date/Time: <b>3/9/23 1110</b> Relinquished by Company: <b>RRM</b> Received by Company: <b>RRM</b> Date/Time: <b>3/10/23 1013</b> Relinquished by Company: <b>RRM</b> Received by Company: <b>RRM</b> Date/Time: <b>3/10/23 1013</b>									
MTLLAB USE ONLY Signature: <b>RRM</b> Date/Time: <b>3/10/23 1013</b> Signature: <b>RRM</b> Date/Time: <b>3/10/23 1013</b> Signature: <b>RRM</b> Date/Time: <b>3/10/23 1013</b>									
Date/Time: <b>3/10/23 1013</b> Date/Time: <b>3/10/23 1013</b> Date/Time: <b>3/10/23 1013</b> Date/Time: <b>3/10/23 1013</b> Date/Time: <b>3/10/23 1013</b> Date/Time: <b>3/10/23 1013</b>									

CHAIN-OF-CUSTODY Analytical Request Document																					
<p>Submitting a sample via this chain of custody certifies acknowledgement and acceptance of the Pace Terms and Conditions found at: <a href="http://www.pacelabs.com/analytical/chain-of-custody/legaldoc.html">http://www.pacelabs.com/analytical/chain-of-custody/legaldoc.html</a></p> <p>Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</p>																					
Company: <b>RRM</b>		Email To: <b>MATT PAULUS</b>		Ship Collection Info/Address: <b>City of Poyonip Open Space, Santa Cruz</b>		State: <b>CA / Santa Cruz</b>		Time Zone Collected: <b>PST (-7) [MT (-7)] [ET (-5)]</b>		Container Preservative Type **											
Address: <b>2560 Soquel Ave, # 202</b>		Phone: <b>831-222-4449</b>		Site/Facility ID #: <b>TMK 808</b>		DW PWK ID #: <b>TMK808</b>		DW Location Code: <b>Turnaround Date Required:</b>		Preservative Types: <b>[1] nitric acid, [2] sulfuric acid, [3] hydrochloric acid, [4] sodium hydroxide, [5] zinc acetate, [6] methanol, [7] sodium borate, [8] sodium thiosulfite, [9] hexane, [A] acetic acid, [B] ammonium sulfate, [C] ammonium hydroxide, [D] TSP, [U] Unreserved, [O] Other</b>											
Report To: <b>MATT PAULUS</b>		Email: <b>MattPaulus@nmssc.co</b>		Customer Project Name/Number: <b>TMK 808</b>		Rush: <b>(Expedite Charges Apply)</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> 12 Day <input type="checkbox"/> 13 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 15 Day		Field Filtered (if applicable): <b>[ ] Yes    <input checked="" type="checkbox"/> No</b>		Analysis: <b>PAHs by 8270 SWIS</b>  <b>Liquid by STLC C/f Pb by 8270 SWIS</b>									
Copy To: <b>MATT PAULUS</b>		Collected By (Print): <b>Karen M. Paulus</b>		Sample Disposal: <b>[ ] Dispose as inappropriate [ ] Return [ ] Archive [ ] Hold</b>		Product Codes (Insert in Matrix box below): <b>Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Biassay (B), Vapor (V), Other (OT)</b>		Customer Sample ID		Matrix *    Comp / Grab		Collected (or Composite Start) Date / Time		Composite End Date / Time		Residual Ctns		Container Type: Plastic (P) or Glass (G)			
Customer Sample ID		Matrix *																			
<b>LPS-9 - 0.5'</b>		<b>Soil</b>		<b>grad</b>		<b>3/23/23 1126</b>		<b>4 in composite</b>		<b>1136</b>		<b>1136</b>		<b>1135</b>		<b>1145</b>		<b>1145</b>		<b>1</b>	
<b>LPS-10 - 0.5'</b>																					
<b>LPS-11 - 0.5'</b>																					
<b>LPS-12 - 0.5'</b>																					
<b>LPS-9 - 2'</b>		<b>Soil</b>		<b>grad</b>		<b>3/23/23 1126</b>		<b>4 in composite</b>		<b>1136</b>		<b>1140</b>		<b>1140</b>		<b>1145</b>		<b>1145</b>		<b>1</b>	
<b>LPS-10 - 2'</b>																					
<b>LPS-11 - 2'</b>																					
<b>LPS-12 - 2'</b>																					
Customer Remarks / Special Conditions / Possible Hazards: <b>COMPOSITE SAMPLES IN LAB AS INSTRUCTED. DO NOT RUN SINGLE SAMPLES</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
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Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
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Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 1645</b>		Received by/Company: <b>Pace</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 1110</b>		Received by/Company: <b>Pace</b>		Date/															

CHAIN-OF-CUSTODY Analytical Request Document											
<p>Submitting a sample via this form of outside contractors activates agreement and acceptance of the Pace Terms and Conditions stated at: <a href="https://www.pacelabs.com/hsfa/standard-terms.pdf">https://www.pacelabs.com/hsfa/standard-terms.pdf</a></p> <p>Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</p>											
Company: <b>RRM</b>		Billing Information:									
Address: <b>2560 Soquel Ave, #202</b>		Email To: <b>Matt Paulus</b>		Site Collection Info/Address: <b>Pogenip Open Space, Santa Cruz</b>		State: <b>CA / Santa Cruz</b>		Time Zone Collected: <b>PST</b>		City/City: <b>JCT 1 - JET</b>	
Phone: <b>(831) 422-7444</b>		Site/Facility ID #: <b>TMK 808</b>		Compliance Monitoring? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		DW PWS ID #: <b>TMK808</b>		DW Location Code: <b>Immediately Packed on Ice:</b>		DW Location Code: <b>Field Filtered (if applicable):</b>	
Email: <b>M.Paulus@rrmsc.co</b>		Purchase Order #: <b>TMK808</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Collected By (print): <b>Renee Paulus</b>		Turnaround Date Required: _____		Rush: (Expedite Charges Apply) <input type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day		Analysis: _____		Analysis: _____		Analysis: _____	
Sample Disposal: <input type="checkbox"/> Dispose as Dangerous <input type="checkbox"/> Return <input type="checkbox"/> Archive: _____ <input checked="" type="checkbox"/> Hold: _____		Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Biosassay (B), Vapor (V), Other (OT)									
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)	Date	Time	Composite End	Date	Time	Res Ctns	# of Ctns	Comments
LPS-13-0.5'	Soil	grab	3/8/23	11:53	4:15pm	1:55	3/8/23	1:55pm	1	1	Containment
LPS-14-0.5'											-31
LPS-15-0.5'											-32
LPS-16-0.5'											-33
LPS-13-2'	Soil	grab	3/8/23	11:53	4:15pm	1:55	3/8/23	1:55pm	1	1	Containment
LPS-14-2'											-34
LPS-15-2'											-35
LPS-16-2'											-36
Customer Remarks / Special Conditions / Possible Hazards: <b>COMPOSITE SAMPLES IN LAB AS INST REQUESTED, DO NOT RUN SINGLE SAMPLES.</b>											
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/9/23 11:00</b>		Received by/Company: <b>Pace</b>		Samples received via: <b>FEDEX UPS</b>		Client: <b>Pace Courier</b>		Lab Tracking #: <b>1044</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 10:00</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 10:00</b>		Table #: <b>N/</b>		Template: <b>N/</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 10:00</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 10:00</b>		Template: <b>N/</b>		Print: <b>N/</b>	
Relinquished by/Company: <b>RRM</b>		Date/Time: <b>3/10/23 10:00</b>		Received by/Company: <b>Pace</b>		Date/Time: <b>3/10/23 10:00</b>		Template: <b>N/</b>		Print: <b>N/</b>	
<p><b>ALL BOLD OUTLINED AREAS are for LAB USE ONLY</b></p> <p>Container Preservative Type: <b>None</b></p> <p>Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium fluoride, (8) hexanes, (A) acetic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other</p> <p>Lab Profile/Line: <b>Lab Sample Received Check List:</b>  <input checked="" type="checkbox"/> Customer Sample Present/Absent: Y N NA  <input checked="" type="checkbox"/> Customer Signature Present: Y N NA  <input checked="" type="checkbox"/> Bottles Intact: Y N NA  <input checked="" type="checkbox"/> Correct Bottles: Y N NA  <input checked="" type="checkbox"/> Correct Volume: Y N NA  <input checked="" type="checkbox"/> Samples Received on Ice: Y N NA  <input checked="" type="checkbox"/> V.O.M. = Headspace Acceptable: Y N NA  <input checked="" type="checkbox"/> Usual Sampled Bottles: Y N NA  <input checked="" type="checkbox"/> Samples in Holding Trays: Y N NA  <input checked="" type="checkbox"/> CI Samples: Y N NA  <input checked="" type="checkbox"/> Residential Collection Present: Y N NA  <input checked="" type="checkbox"/> PH Sample: Y N NA  <input checked="" type="checkbox"/> Sample IS Acceptable: Y N NA  <input checked="" type="checkbox"/> Guidance Received: Y N NA  <input checked="" type="checkbox"/> Legend: Acetate Stings: Y N NA  </p> <p>LAB USE ONLY:  <input checked="" type="checkbox"/> Lab Sample # / Container #:</p>											
<p><b>LED by 8270 SWIS</b></p> <p><b>PAHs by TLC (if P6 by 5/10/23)</b></p> <p><b>LEad by STLC (if P6 by 5/10/23)</b></p> <p><b>CdM 14 Metho/5</b></p>											

<b>CHAIN-OF-CUSTODY Analytical Request Document</b> <small>Submitting a sample is the chain of custody, constitutes acknowledgement and acceptance of the Terms and Conditions found at: <a href="#">http://www.pacelabs.com/legaldocuments.pdf</a></small> <small>Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</small>	
Company: <b>RPM</b> Address: <b>2260 Sequel Ave, #202</b> Report To: <b>Matt Paulus</b> Copy To: <b>Matt Paulus</b> Customer Project Name/Number: <b>IMK 808</b> Phone: <b>(937) 227-4448</b> Site/Facility ID #: <b>IMT L JCT L JET</b> Email: <b>mpaulus@pacelabs.com</b> Collected By (Initials): <b>MMP</b> Collected For (Initials): <b>MMP</b> Sample Disposal: <b>I dispose as appropriate</b> I Return: _____ I Archive: _____ I Hold: _____ * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Biassay (B), Vapor (V), Other (OT)	
Billing Information: <b>RPM</b> Billing Address: <b>Pyonon Open Space, City of Santa Cruz</b> State: <b>CA / Santa Cruz</b> County/City: <b>CA / Santa Cruz</b> Time Zone Collected: <b>EDT</b> Compliance Monitoring? <b>[ ] Yes [x] No</b> Purchase Order #: <b>IMK808</b> Turnaround Date Required: <b>Same Day</b> Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 12 Day [ ] 3 Day [ ] 14 Day [ ] 5 Day Quote #: <b>PAH 8270 SIMS</b> Analysis: <b>all for dry weight basis</b>	
Container Preservative Type: <b>None</b> <small>Preservative Types: (1) sulfuric acid, (2) hydrochloric acid, (3) sodium hydroxide, (4) zinc acetate, (5) ammonium sulfate, (6) methanol, (7) sodium borofluoride, (8) hexane, (9) acetic acid, (10) unpreserved, (11) Other</small>	
Lab Profile/Limit: <small>Lab Sample Receipt Checklist:            Laboratory Sample Present: <b>Y</b> N <b>N</b>            Laboratory Signature Present: <b>Y</b> N <b>N</b>            Collector Signature Present: <b>Y</b> N <b>N</b>            Samples Received on Time: <b>Y</b> N <b>N</b>            Samples Bottled: <b>Y</b> N <b>N</b>            Sufficient Volume: <b>Y</b> N <b>N</b>            Regulated Sample: <b>Y</b> N <b>N</b>            Samples in Holding Time: <b>Y</b> N <b>N</b>            Chloride Present: <b>Y</b> N <b>N</b>            Sample pH Acceptable: <b>Y</b> N <b>N</b>            pH Receipt: <b>Y</b> N <b>N</b>            Glucose Present: <b>Y</b> N <b>N</b>            Used Aspirate: <b>Y</b> N <b>N</b></small>	
Lab USB ONLY: <small>Lab sample &amp; comments:</small> <b>all for dry weight basis</b> <b>CAM 17 Metals</b> <b>PAH 8270 SIMS</b>	
Container Type: <b>Glass (g)</b> Concentration: <b>1.55</b>	
Customer Sample ID: <b>WTL-1-0.5'</b> Matrix: <b>Soil</b> Collected (or Composite Start) Date: <b>3/8/23</b> Time: <b>1040</b> Composite End Date: <b>3/8/23</b> Time: <b>1155</b> Res Cms: <b>1</b>	
Customer Remarks / Special Conditions / Possible Hazards: <b>all for dry weight basis</b>	
Reinquished by/Company: <b>RPM</b> Date/Time: <b>3/9/23 1100</b> Relinquished by/Company: <b>Pace</b> Received by/Company: <b>Pace</b> Reinquished by/Company: <b>RPM</b> Date/Time: <b>3/10/23 1043</b> Relinquished by/Company: <b>Pace</b> Received by/Company: <b>Pace</b>	
Lab Sample Temperature Info: <small>Temp Shown: <b>30.0</b> Celsius: <b>86</b> Fahrenheit: <b>104</b> Relative Humidity: <b>50%</b> Barometric Pressure: <b>30.02</b> inches Hg</small>	
Lab Tracking #: <b>FEDEX UPS</b> Samples received via: <b>Client Courier Pace Courier</b> Date/Time: <b>3/10/23 1043</b> Table #: <b>MUL LAB USE ONLY</b> Medium: <b>Acetum</b> Template: <b>Prelogin:</b> PH: <b>7.0</b> Date/Time: <b>PH:</b> PB: <b>0.0</b> Date/Time: <b>PB:</b>	
Trip Blank Received: <b>Y N</b> <small>HCl, MeOH TSP Other</small> Non Conformance(s): <b>YES / NO</b> <small>of:</small> <small>Page: _____</small>	

Chain of Custody and Cooler Receipt Form for 2305048 Page 6 of 9

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 4						
Submission #: 23-05048										
<b>SHIPPING INFORMATION</b> FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>FREE LIQUID</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W/S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals	Ice Chest <input type="checkbox"/>	Containers <input type="checkbox"/>	None <input checked="" type="checkbox"/>	Comments:						
Intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>									
All samples received? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		All samples containers intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
<b>COC Received</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Emissivity: 0.97	Container: Clear glass	Thermometer ID: 337	Date/Time 3-10-23						
	Temperature: (A) 56 °C / (C) 53 °C			Analyst Init. SMH/1043						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
OT PE UNPRES										
4oz/8oz/16oz PE UNPRES										
2oz Cr <sup>6+</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz/8oz/16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PT PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/603,35081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 801501										
QT EPA 8270C										
3oz/16oz/32oz AMBER										
3oz/16oz/32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEFLON BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										
Comments: Did not receive -36 nor -38	A A A A	A A A A								
Sample Numbering Completed By: PRE	Date/Time: 3/10/23 2355									
A = Actual / C = Corrected										

Rev 23 05/20/22  
 (S:\PP\Doc\Word\Permit\Lab\_COOLERFORMS\SAFIRERev 23)

Chain of Custody and Cooler Receipt Form for 2305048 Page 7 of 9

PACE ANALYTICAL		COOLER RECEIPT FORM						Page 2 Of 4			
Submission #: 23-05048											
<b>SHIPPING INFORMATION</b> FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____								<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>FREE LIQUID</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> W/S	
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:											
Custody Seals		Ice Chest <input type="checkbox"/>	Containers <input type="checkbox"/>	None <input checked="" type="checkbox"/> Comments:							
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>									
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: glass Thermometer ID: 337		Date/Time: 3-10-23							
		Temperature: (A) 56 °C / (C) 53 °C								Analyst init: SMH/1043	
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
OT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cray											
OT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PT PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
OT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL-504											
OT EPA 503/505/508/509/510A											
OT EPA 515.1/8151A											
OT EPA 525.2											
OT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
OT EPA 549.2											
OT EPA 8015M											
OT EPA 8270C											
Box / 16oz / 32oz AMBER											
Box / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments:											
Sample Numbering Completed By: PPE	Date/Time: 3/10/23 2353										
A = Actual / C = Corrected											

Rev 23-05/20/22  
[OT/HT/DO/CD/Verif/Perf/FLAB\_SampleForm/SHAMRECRev 23]

Chain of Custody and Cooler Receipt Form for 2305048 Page 8 of 9

PACE ANALYTICAL		COOLER RECEIPT FORM						Page 3 Of 4				
Submission #: 23-05048												
<b>SHIPPING INFORMATION</b> <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			<b>FREE LIQUID</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> W / S					
<b>Refrigerant:</b> Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>												
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
<b>COC Received</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: Clear GLASS Thermometer ID: 337		Date/Time 3-10-23 Analyst Init. SMH/1043								
		Temperature: (A) 56 °C / (C) 53 °C										
SAMPLE CONTAINERS		SAMPLE NUMBERS										
		21	22	23	24	5	26	27	28	29	10	
QT PE UNPRES												
4oz / 8oz / 16oz PE UNPRES												
7oz Cr <sup>6+</sup>												
QT INORGANIC CHEMICAL METALS												
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz												
PT CYANIDE												
PT NITROGEN FORMS												
PT TOTAL SULFIDE												
2oz NITRATE / NITRITE												
PT TOTAL ORGANIC CARBON												
PT CHEMICAL OXYGEN DEMAND												
PTA PHENOLICS												
40ml VOA VIAL TRAVEL BLANK												
40ml VOA VIAL												
QT EPA 16646												
PT ODOR												
RADIOLOGICAL												
BACTERIOLOGICAL												
40 ml VOA VIAL 304												
QT EPA 503.3NS05IA												
QT EPA 515.1NS15IA												
QT EPA 525.3												
QT EPA 525.2 TRAVEL BLANK												
40ml EPA 547												
40ml EPA 531.1												
8oz EPA 548.1												
QT EPA 549.2												
QT EPA 5015M												
QT EPA 5270C												
8oz / 16oz / 32oz AMBER												
16oz / 32oz JAR												
SOIL SLEEVE												
PCB VIAL												
PLASTIC BAG												
TEFLON BAG												
FERROUS IRON												
ENCORE												
SMART KIT												
SUMMA CANISTER												
Comments:												
A = Actual / C = Corrected:	PRE		Date/Time: 3/10/23		2355		Rev 23 05/20/22					
Scribble Data/WordPerfect4.0_B.COC FORM 1048-A12 Rev 23052022												

Chain of Custody and Cooler Receipt Form for 2305048 Page 9 of 9

PACE ANALYTICAL		COOLER RECEIPT FORM						Page 4 of 4			
Submission #: 23-05048											
<b>SHIPPING INFORMATION</b> <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other (Specify) _____				<b>SHIPPING CONTAINER</b> <input checked="" type="checkbox"/> Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other (Specify) _____			<b>FREE LIQUID</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S				
Refrigerant: <input checked="" type="checkbox"/> Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other		Comments:									
Custody Seals <input type="checkbox"/> Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Comments:									
All samples received? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		All samples containers intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
<input checked="" type="checkbox"/> COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: clear glass Thermometer ID: 337		Date/Time: 3-10-23 Analyst Init: SMH/1043							
Temperature: (A) 56 °C / (C) 53 °C											
SAMPLE CONTAINERS		SAMPLE NUMBERS									
OT PE UNPRES		31	32	33	34	5	6	37	8	39	41
4oz / 8oz / 16oz PE UNPRES											
2oz Cr <sup>2O</sup>											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PTA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
45ml VOA VIAL											
QT EPA 1664B											
PT ODO											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL-504											
QT EPA 508M03, 33051A											
QT EPA 515.1/8151A											
QT EPA 575.2											
QT EPA 575.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 568.1											
QT EPA 549.2											
QT EPA 801SM											
QT EPA 8270C											
3oz / 16oz / 32oz AMBER											
2oz / 16oz / 32oz JAR											
SOL SLEEVE <i>steel</i>		A	B	A	A			A		A	A
PCB VIAL											
PLASTIC BAG											
TEFLON BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUNMA CANISTER											
Comments: _____											
Sample Numbering Completed By: <i>PRE</i> Date/Time: 3/10/23 2355 Rev 23 05/20/22											
A = Actual   C = Corrected											

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305048-01	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-1-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-02	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-2-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-03	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-3-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-04	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-4-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-05	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-1-0.5, LSP-2-0.5, LSP-3-0.5, LSP-4-0.5 <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-06	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-1-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:11 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-07	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-2-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

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Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305048-08	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-3-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-09	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-4-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-10	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-1-2', LSP-2-2', LSP-3-2', LSP-4-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-11	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-5-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:48 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-12	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-6-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:01 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-13	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-7-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-14	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-8-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305048-15	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-5-0.5', LSP-6-0.5', LSP-7-0.5', LSP-8-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:48 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-16	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-5-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-17	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-6-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:02 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-18	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-7-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-19	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-8-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:06 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-20	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-5-2', LSP-6-2', LSP-7-2', LSP-8-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-21	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-9-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:26 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305048-22	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-10-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:36 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-23	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-11-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:35 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-24	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-12-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-25	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-9-0.5, LSP-10-0.5, LSP-11-0.5, LSP-12-0.5 <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:26 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-26	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-9-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:26 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-27	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-10-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:36 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-28	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-11-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305048-29	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-12-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-30	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-9-2', LSP-10-2', LSP-11-2', LSP-12-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:26 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-31	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-13-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:53 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-32	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-14-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-33	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-15-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 12:01 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-34	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-16-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 12:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-35	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-13-0.5', LSP-14-0.5', LSP-15-0.5', LSP-16-0 <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:53 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

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**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305048-36	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-13-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:53 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-37	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-14-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-38	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-15-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 12:01 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-39	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> LPS-16-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 12:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-40	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> Composite of LSP-13-2', LSP-14-2', LSP-15-2', LSP-16-2' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 11:53 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2305048-41	<b>COC Number:</b> --- <b>Project Number:</b> IMK808 <b>Sampling Location:</b> --- <b>Sampling Point:</b> WTL-1-0.5' <b>Sampled By:</b> Kaempf/Paulus of RRMS	<b>Receive Date:</b> 03/10/2023 10:43 <b>Sampling Date:</b> 03/08/2023 10:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		

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**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-05	Client Sample Name:	IMK808, Composite of LSP-1-0.5, LSP-2-0.5, LSP-3-0.5, LSP-4-0.5, 3/8/2023 10:20:00AM, Kenne & Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	20.7 (AR)	%	0.06	0.06	Calc	ND		1
Solids	79.3 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

DCN = Data Continuation Number

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**Project Manager:** Matt Paulus

## WET Test (STLC)

BCL Sample ID:	2305048-05	Client Sample Name:	IMK808, Composite of LSP-1-0.5, LSP-2-0.5, LSP-3-0.5, LSP-4-0.5, 3/8/2023 10:20:00AM, Keenan&Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	STLC Limits	Lab Quals	DCN
Lead	8.7 (AR)	mg/L	0.50 (AR)	0.13 (AR)	EPA-6010B	5.0		1

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/26/23 12:30	03/27/23 11:19	JCC	PE-OP4	1	B162682	EPA 3005A

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**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## TCLP Toxicity

BCL Sample ID:	2305048-05	Client Sample Name:	IMK808, Composite of LSP-1-0.5, LSP-2-0.5, LSP-3-0.5, LSP-4-0.5, 3/8/2023 10:20:00AM, Keenan&Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TCLP Limits	Lab Quals	DCN
Lead	0.62 (AR)	mg/L	0.50 (AR)	0.030 (AR)	EPA-6010B	5.0		1

DCN	Method	Prep Date	Run			Dilution	Batch ID	QC	Prep Method
			Date/Time	Analyst	Instrument				
1	EPA-6010B	04/14/23 08:50	04/14/23 20:42	JCC	PE-OP3	1	B164191	EPA 3050B	

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**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-05	Client Sample Name:	IMK808, Composite of LSP-1-0.5, LSP-2-0.5, LSP-3-0.5, LSP-4-0.5, 3/8/2023 10:20:00AM, KeenanPaulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	0.48	mg/kg	6.3	0.42	EPA-6010B	500	J	1
Arsenic	3.3	mg/kg	1.3	0.50	EPA-6010B	500		2
Barium	81	mg/kg	0.63	0.23	EPA-6010B	10000		2
Beryllium	0.41	mg/kg	0.63	0.059	EPA-6010B	75	J	2
Cadmium	ND	mg/kg	0.63	0.066	EPA-6010B	100		2
Chromium	12	mg/kg	0.63	0.063	EPA-6010B	2500		2
Cobalt	5.1	mg/kg	3.2	0.12	EPA-6010B	8000		2
Copper	4.9	mg/kg	1.3	0.063	EPA-6010B	2500		2
Lead	170	mg/kg	3.2	0.52	EPA-6010B	1000		2
Mercury	0.49	mg/kg	0.20	0.020	EPA-7471A	20		3
Molybdenum	ND	mg/kg	3.2	0.063	EPA-6010B	3500		2
Nickel	5.3	mg/kg	0.63	0.19	EPA-6010B	2000		2
Selenium	ND	mg/kg	1.3	1.2	EPA-6010B	100		2
Silver	ND	mg/kg	0.63	0.084	EPA-6010B	500		2
Thallium	ND	mg/kg	6.3	0.81	EPA-6010B	700		2
Vanadium	18	mg/kg	0.63	0.14	EPA-6010B	2400		2
Zinc	38	mg/kg	3.2	0.11	EPA-6010B	5000		2

DCN	Method	Prep Date	Run Date/Time			Instrument	Dilution	QC	
			Analyst	Batch ID	Prep Method			Batch ID	Prep Method
1	EPA-6010B	03/15/23 09:30	03/21/23 17:55	DVS	PE-OP4	0.962	B161923	EPA 3050B	
2	EPA-6010B	03/15/23 09:30	03/17/23 20:20	DVS	PE-OP4	0.962	B161923	EPA 3050B	
3	EPA-7471A	03/14/23 11:15	03/14/23 14:13	TMT	CETAC3	1.008	B161857	EPA 7471A	

DCN = Data Continuation Number

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-10	Client Sample Name:	IMK808, Composite of LSP-1-2', LSP-2-2', LSP-3-2', LSP-4-2', 3/8/2023 10:20:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	25.7 (AR)	%	0.07	0.07	Calc	ND		1
Solids	74.3 (AR)	%	0.07	0.07	SM-2540G			2

DCN = Data Continuation Number

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-10	Client Sample Name:	IMK808, Composite of LSP-1-2', LSP-2-2', LSP-3-2', LSP-4-2', 3/8/2023 10:20:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	ND	mg/kg	6.7	0.44	EPA-6010B	500		1
Arsenic	2.8	mg/kg	1.3	0.54	EPA-6010B	500		2
Barium	93	mg/kg	0.67	0.24	EPA-6010B	10000		2
Beryllium	0.52	mg/kg	0.67	0.063	EPA-6010B	75	J	2
Cadmium	ND	mg/kg	0.67	0.070	EPA-6010B	100		2
Chromium	13	mg/kg	0.67	0.067	EPA-6010B	2500		2
Cobalt	5.9	mg/kg	3.4	0.13	EPA-6010B	8000		2
Copper	4.7	mg/kg	1.3	0.067	EPA-6010B	2500		2
Lead	10	mg/kg	3.4	0.55	EPA-6010B	1000		2
Mercury	0.040	mg/kg	0.22	0.022	EPA-7471A	20	J	3
Molybdenum	ND	mg/kg	3.4	0.067	EPA-6010B	3500		2
Nickel	5.8	mg/kg	0.67	0.20	EPA-6010B	2000		2
Selenium	ND	mg/kg	1.3	1.3	EPA-6010B	100		2
Silver	ND	mg/kg	0.67	0.090	EPA-6010B	500		2
Thallium	ND	mg/kg	6.7	0.86	EPA-6010B	700		2
Vanadium	20	mg/kg	0.67	0.15	EPA-6010B	2400		2
Zinc	35	mg/kg	3.4	0.12	EPA-6010B	5000		2

DCN	Method	Prep Date	Run Date/Time			Instrument	Dilution	QC	
			Analyst	Batch ID	Prep Method			Batch ID	Prep Method
1	EPA-6010B	03/15/23 09:30	03/21/23 17:56	DVS	PE-OP4	0.909	B161923	EPA 3050B	
2	EPA-6010B	03/15/23 09:30	03/17/23 20:21	DVS	PE-OP4	0.909	B161923	EPA 3050B	
3	EPA-7471A	03/14/23 11:15	03/14/23 14:15	TMT	CETAC3	0.962	B161857	EPA 7471A	

DCN = Data Continuation Number

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID:	2305048-15	Client Sample Name:	IMK808, Composite of LSP-5-0.5', LSP-6-0.5', LSP-7-0.5', LSP-8-0.5'; 3/8/2023 10:48:00AM, Keenan & Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	0.078	mg/kg	0.0073	0.0032	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.0073	0.0022	EPA-8270C-SIM	ND	A10	1
Anthracene	0.12	mg/kg	0.0073	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	0.53	mg/kg	0.036	0.012	EPA-8270C-SIM	ND	A10	2
Benzo[b]fluoranthene	1.0	mg/kg	0.073	0.019	EPA-8270C-SIM	ND	A10	3
Benzo[k]fluoranthene	0.13	mg/kg	0.0073	0.0027	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	1.0	mg/kg	0.073	0.019	EPA-8270C-SIM	ND	A10	3
Benzo[g,h,i]perylene	0.97	mg/kg	0.073	0.017	EPA-8270C-SIM	ND	A10	3
Chrysene	0.57	mg/kg	0.036	0.013	EPA-8270C-SIM	ND	A10	2
Dibenzo[a,h]anthracene	0.38	mg/kg	0.036	0.0058	EPA-8270C-SIM	ND	A10	2
Fluoranthene	0.43	mg/kg	0.036	0.0091	EPA-8270C-SIM	ND	A10	2
Fluorene	0.0070	mg/kg	0.0073	0.0024	EPA-8270C-SIM	ND	J,A10	1
Indeno[1,2,3-cd]pyrene	0.96	mg/kg	0.073	0.011	EPA-8270C-SIM	ND	A10	3
Naphthalene	0.0036	mg/kg	0.0073	0.0022	EPA-8270C-SIM	ND	J,A10	1
Phenanthrene	0.099	mg/kg	0.0073	0.0021	EPA-8270C-SIM	ND	A10	1
Pyrene	0.47	mg/kg	0.036	0.015	EPA-8270C-SIM	ND	A10	2
Nitrobenzene-d5 (Surrogate)	38.4	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	8.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM		S09	1
p-Terphenyl-d14 (Surrogate)	10.7	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM		S09	1

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC Batch ID	Prep Method
			Date	Time						
1	EPA-8270C-SIM	03/15/23 19:40	03/16/23 12:45			OLH	MS-B7	2.020	B162013	EPA 3550B
2	EPA-8270C-SIM	03/15/23 19:40	03/16/23 14:26			OLH	MS-B7	10.101	B162013	EPA 3550B
3	EPA-8270C-SIM	03/15/23 19:40	03/16/23 14:48			OLH	MS-B7	20.202	B162013	EPA 3550B

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-15	Client Sample Name:	IMK808, Composite of LSP-5-0.5', LSP-6-0.5', LSP-7-0.5', LSP-8-0.5'; 3/8/2023 10:48:00AM, Keenan&Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	17.7 (AR)	%	0.06	0.06	Calc	ND		1
Solids	82.3 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-15	Client Sample Name:	IMK808, Composite of LSP-5-0.5', LSP-6-0.5', LSP-7-0.5', LSP-8-0.5'; 3/8/2023 10:48:00AM, KeenanPaulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	0.53	mg/kg	6.1	0.40	EPA-6010B	500	J	1
Arsenic	3.1	mg/kg	1.2	0.49	EPA-6010B	500		2
Barium	88	mg/kg	0.61	0.22	EPA-6010B	10000		2
Beryllium	0.32	mg/kg	0.61	0.057	EPA-6010B	75	J	2
Cadmium	0.080	mg/kg	0.61	0.063	EPA-6010B	100	J	2
Chromium	15	mg/kg	0.61	0.061	EPA-6010B	2500		2
Cobalt	2.9	mg/kg	3.0	0.12	EPA-6010B	8000	J	2
Copper	7.2	mg/kg	1.2	0.061	EPA-6010B	2500		2
Lead	43	mg/kg	3.0	0.50	EPA-6010B	1000		2
Mercury	0.21	mg/kg	0.19	0.019	EPA-7471A	20		3
Molybdenum	ND	mg/kg	3.0	0.061	EPA-6010B	3500		2
Nickel	6.5	mg/kg	0.61	0.18	EPA-6010B	2000		2
Selenium	ND	mg/kg	1.2	1.2	EPA-6010B	100		2
Silver	ND	mg/kg	0.61	0.081	EPA-6010B	500		2
Thallium	ND	mg/kg	6.1	0.78	EPA-6010B	700		2
Vanadium	16	mg/kg	0.61	0.13	EPA-6010B	2400		2
Zinc	35	mg/kg	3.0	0.11	EPA-6010B	5000		2

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/15/23 09:30	03/21/23 17:58	DVS	PE-OP4	0.943	B161923	EPA 3050B
2	EPA-6010B	03/15/23 09:30	03/17/23 20:22	DVS	PE-OP4	0.943	B161923	EPA 3050B
3	EPA-7471A	03/14/23 11:15	03/14/23 14:17	TMT	CETAC3	0.977	B161857	EPA 7471A

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID:	2305048-20	Client Sample Name:	IMK808, Composite of LSP-5-2', LSP-6-2', LSP-7-2', LSP-8-2', 3/8/2023 10:50:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.0036	0.0016	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	mg/kg	0.0036	0.0011	EPA-8270C-SIM	ND		1
Anthracene	ND	mg/kg	0.0036	0.00097	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	mg/kg	0.0036	0.0011	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.0036	0.00094	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.0036	0.0013	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	mg/kg	0.0036	0.00093	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.0036	0.00086	EPA-8270C-SIM	ND		1
Chrysene	ND	mg/kg	0.0036	0.0013	EPA-8270C-SIM	ND		1
Dibenz[a,h]anthracene	ND	mg/kg	0.0036	0.00057	EPA-8270C-SIM	ND		1
Fluoranthene	ND	mg/kg	0.0036	0.00089	EPA-8270C-SIM	ND		1
Fluorene	ND	mg/kg	0.0036	0.0012	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.0036	0.00056	EPA-8270C-SIM	ND		1
Naphthalene	ND	mg/kg	0.0036	0.0011	EPA-8270C-SIM	ND		1
Phenanthrene	ND	mg/kg	0.0036	0.0010	EPA-8270C-SIM	ND		1
Pyrene	ND	mg/kg	0.0036	0.0014	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	31.6	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	8.5	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM	S09		1
p-Terphenyl-d14 (Surrogate)	27.0	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM	S09		1

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC	
			Date	Time	Batch ID				Prep Method	
1	EPA-8270C-SIM	03/15/23 19:40	03/16/23	12:22	B162013	OLH	MS-B7	1.003	EPA 3550B	

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-20	Client Sample Name:	IMK808, Composite of LSP-5-2', LSP-6-2', LSP-7-2', LSP-8-2', 3/8/2023 10:50:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	16.2 (AR)	%	0.06	0.06	Calc	ND		1
Solids	83.8 (AR)	%	0.06	0.06	SM-2540G			2

DCN = Data Continuation Number

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

RRM, Inc.  
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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-20	Client Sample Name:	IMK808, Composite of LSP-5-2', LSP-6-2', LSP-7-2', LSP-8-2', 3/8/2023 10:50:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	0.49	mg/kg	6.0	0.39	EPA-6010B	500	J	1
Arsenic	3.4	mg/kg	1.2	0.48	EPA-6010B	500		2
Barium	84	mg/kg	0.60	0.21	EPA-6010B	10000		2
Beryllium	0.37	mg/kg	0.60	0.056	EPA-6010B	75	J	2
Cadmium	ND	mg/kg	0.60	0.062	EPA-6010B	100		2
Chromium	16	mg/kg	0.60	0.060	EPA-6010B	2500		2
Cobalt	2.7	mg/kg	3.0	0.12	EPA-6010B	8000	J	2
Copper	3.8	mg/kg	1.2	0.060	EPA-6010B	2500		2
Lead	6.2	mg/kg	3.0	0.49	EPA-6010B	1000		2
Mercury	0.11	mg/kg	0.19	0.019	EPA-7471A	20	J	3
Molybdenum	ND	mg/kg	3.0	0.060	EPA-6010B	3500		2
Nickel	7.0	mg/kg	0.60	0.18	EPA-6010B	2000		2
Selenium	ND	mg/kg	1.2	1.2	EPA-6010B	100		2
Silver	ND	mg/kg	0.60	0.080	EPA-6010B	500		2
Thallium	ND	mg/kg	6.0	0.76	EPA-6010B	700		2
Vanadium	20	mg/kg	0.60	0.13	EPA-6010B	2400		2
Zinc	20	mg/kg	3.0	0.10	EPA-6010B	5000		2

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC	
			Date	Time	Batch ID				Prep Method	
1	EPA-6010B	03/15/23 09:30	03/21/23	17:59	B161923	DVS	PE-OP4	1	EPA 3050B	
2	EPA-6010B	03/15/23 09:30	03/17/23	20:23	B161923	DVS	PE-OP4	1	EPA 3050B	
3	EPA-7471A	03/14/23 11:15	03/14/23	14:19	B161857	TMT	CETAC3	0.992	EPA 7471A	

DCN = Data Continuation Number

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2560 Soquel Avenue, Suite 202  
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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-25	Client Sample Name: IMK808, Composite of LSP-9-0.5, LSP-10-0.5, LSP-11-0.5, LSP-12-0.5, 3/8/2023 11:26:00AM, Kenne&Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	16.5 (AR)	%	0.06	0.06	Calc	ND		1
Solids	83.5 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

DCN = Data Continuation Number

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## WET Test (STLC)

BCL Sample ID:	2305048-25	Client Sample Name:	IMK808, Composite of LSP-9-0.5, LSP-10-0.5, LSP-11-0.5, LSP-12-0.5, 3/8/2023 11:26:00AM, Kenne&Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	STLC Limits	Lab Quals	DCN
Lead	24 (AR)	mg/L	0.50 (AR)	0.13 (AR)	EPA-6010B	5.0		1

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/26/23 12:30	03/27/23 11:20	JCC	PE-OP4	1	B162682	EPA 3005A

DCN = Data Continuation Number

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Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## TCLP Toxicity

BCL Sample ID:	2305048-25	Client Sample Name: IMK808, Composite of LSP-9-0.5, LSP-10-0.5, LSP-11-0.5, LSP-12-0.5, 3/8/2023 11:26:00AM, Kenne&Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TCLP Limits	Lab Quals	DCN
Lead	1.3 (AR)	mg/L	0.50 (AR)	0.030 (AR)	EPA-6010B	5.0		1

DCN	Method	Prep Date	Run			Dilution	Batch ID	QC	Prep Method
			Date/Time	Analyst	Instrument				
1	EPA-6010B	04/14/23 08:50	04/14/23 20:47	JCC	PE-OP3	1	B164191	EPA 3050B	

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-25	Client Sample Name:	IMK808, Composite of LSP-9-0.5, LSP-10-0.5, LSP-11-0.5, LSP-12-0.5, 3/8/2023 11:26:00AM, KeenanPaulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	2.7	mg/kg	6.0	0.40	EPA-6010B	500	J	1
Arsenic	7.1	mg/kg	1.2	0.48	EPA-6010B	500		2
Barium	140	mg/kg	0.60	0.22	EPA-6010B	10000		2
Beryllium	0.55	mg/kg	0.60	0.056	EPA-6010B	75	J	2
Cadmium	ND	mg/kg	0.60	0.062	EPA-6010B	100		2
Chromium	22	mg/kg	0.60	0.060	EPA-6010B	2500		2
Cobalt	8.0	mg/kg	3.0	0.12	EPA-6010B	8000		2
Copper	7.3	mg/kg	1.2	0.060	EPA-6010B	2500		2
Lead	520	mg/kg	3.0	0.49	EPA-6010B	1000		2
Mercury	0.026	mg/kg	0.19	0.019	EPA-7471A	20	J	3
Molybdenum	ND	mg/kg	3.0	0.060	EPA-6010B	3500		2
Nickel	12	mg/kg	0.60	0.18	EPA-6010B	2000		2
Selenium	ND	mg/kg	1.2	1.2	EPA-6010B	100		2
Silver	ND	mg/kg	0.60	0.080	EPA-6010B	500		2
Thallium	ND	mg/kg	6.0	0.77	EPA-6010B	700		2
Vanadium	32	mg/kg	0.60	0.13	EPA-6010B	2400		2
Zinc	28	mg/kg	3.0	0.10	EPA-6010B	5000		2

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/15/23 09:30	03/21/23 18:00	DVS	PE-OP4	0.962	B161923	EPA 3050B
2	EPA-6010B	03/15/23 09:30	03/17/23 20:25	DVS	PE-OP4	0.962	B161923	EPA 3050B
3	EPA-7471A	03/14/23 11:15	03/14/23 14:21	TMT	CETAC3	0.977	B161857	EPA 7471A

DCN = Data Continuation Number

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2560 Soquel Avenue, Suite 202  
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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-30	Client Sample Name: IMK808, Composite of LSP-9-2', LSP-10-2', LSP-11-2', LSP-12-2', 3/8/2023 11:26:00AM, Keenan&Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	16.8 (AR)	%	0.06	0.06	Calc	ND		1
Solids	83.2 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
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Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## WET Test (STLC)

BCL Sample ID:	2305048-30	Client Sample Name: IMK808, Composite of LSP-9-2', LSP-10-2', LSP-11-2', LSP-12-2', 3/8/2023 11:26:00AM, Kenne&Paulus							
Constituent	Dry Basis Result	Units	PQL	MDL	Method	STLC Limits	Lab Quals	DCN	
Lead	10 (AR)	mg/L	0.50 (AR)	0.13 (AR)	EPA-6010B	5.0		1	

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/26/23 12:30	03/27/23 11:22	JCC	PE-OP4	1	B162682	EPA 3005A

DCN = Data Continuation Number

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2560 Soquel Avenue, Suite 202  
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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## TCLP Toxicity

BCL Sample ID:	2305048-30	Client Sample Name: IMK808, Composite of LSP-9-2', LSP-10-2', LSP-11-2', LSP-12-2', 3/8/2023 11:26:00AM, Kenne & Paulus							
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TCLP Limits	Lab Quals	DCN	
Lead	3.8 (AR)	mg/L	0.50 (AR)	0.030 (AR)	EPA-6010B	5.0		1	

DCN	Method	Prep Date	Run			Dilution	Batch ID	QC	Prep Method
			Date/Time	Analyst	Instrument				
1	EPA-6010B	04/14/23 08:50	04/14/23 20:48	JCC	PE-OP3	1	B164191	EPA 3050B	

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-30	Client Sample Name:	IMK808, Composite of LSP-9-2', LSP-10-2', LSP-11-2', LSP-12-2', 3/8/2023 11:26:00AM, KeenanPaulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	2.0	mg/kg	6.0	0.40	EPA-6010B	500	J	1
Arsenic	6.5	mg/kg	1.2	0.48	EPA-6010B	500		2
Barium	150	mg/kg	0.60	0.22	EPA-6010B	10000		2
Beryllium	0.59	mg/kg	0.60	0.057	EPA-6010B	75	J	2
Cadmium	ND	mg/kg	0.60	0.063	EPA-6010B	100		2
Chromium	21	mg/kg	0.60	0.060	EPA-6010B	2500		2
Cobalt	7.9	mg/kg	3.0	0.12	EPA-6010B	8000		2
Copper	7.0	mg/kg	1.2	0.060	EPA-6010B	2500		2
Lead	240	mg/kg	3.0	0.49	EPA-6010B	1000		2
Mercury	0.033	mg/kg	0.19	0.019	EPA-7471A	20	J	3
Molybdenum	ND	mg/kg	3.0	0.060	EPA-6010B	3500		2
Nickel	13	mg/kg	0.60	0.18	EPA-6010B	2000		2
Selenium	ND	mg/kg	1.2	1.2	EPA-6010B	100		2
Silver	ND	mg/kg	0.60	0.081	EPA-6010B	500		2
Thallium	ND	mg/kg	6.0	0.77	EPA-6010B	700		2
Vanadium	30	mg/kg	0.60	0.13	EPA-6010B	2400		2
Zinc	27	mg/kg	3.0	0.10	EPA-6010B	5000		2

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/15/23 09:30	03/21/23 18:01	DVS	PE-OP4	0.935	B161923	EPA 3050B
2	EPA-6010B	03/15/23 09:30	03/17/23 20:26	DVS	PE-OP4	0.935	B161923	EPA 3050B
3	EPA-7471A	03/14/23 11:15	03/14/23 14:27	TMT	CETAC3	0.962	B161857	EPA 7471A

DCN = Data Continuation Number

RRM, Inc.  
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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-35	Client Sample Name:	IMK808, Composite of LSP-13-0.5', LSP-14-0.5', LSP-15-0.5', LSP-16-0, 3/8/2023 11:53:00AM, Keenan&Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	18.8 (AR)	%	0.06	0.06	Calc	ND		1
Solids	81.2 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## WET Test (STLC)

BCL Sample ID:	2305048-35	Client Sample Name:	IMK808, Composite of LSP-13-0.5', LSP-14-0.5', LSP-15-0.5', LSP-16-0, 3/8/2023 11:53:00AM, Keenan&Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	STLC Limits	Lab Quals	DCN
Lead	8.4 (AR)	mg/L	0.50 (AR)	0.13 (AR)	EPA-6010B	5.0		1

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/26/23 12:30	03/27/23 11:24	JCC	PE-OP4	1	B162682	EPA 3005A

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## TCLP Toxicity

BCL Sample ID:	2305048-35	Client Sample Name: IMK808, Composite of LSP-13-0.5', LSP-14-0.5', LSP-15-0.5', LSP-16-0, 3/8/2023 11:53:00AM, Keenan&Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TCLP Limits	Lab Quals	DCN
Lead	0.83 (AR)	mg/L	0.50 (AR)	0.030 (AR)	EPA-6010B	5.0		1

DCN	Method	Run			QC			
		Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	EPA-6010B	04/14/23 08:50	04/14/23 20:32	JCC	PE-OP3	1	B164191	EPA 3050B

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-35	Client Sample Name:	IMK808, Composite of LSP-13-0.5', LSP-14-0.5', LSP-15-0.5', LSP-16-0, 3/8/2023 11:53:00AM, KeenanPaulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	1.1	mg/kg	6.2	0.41	EPA-6010B	500	J	1
Arsenic	3.2	mg/kg	1.2	0.49	EPA-6010B	500		1
Barium	95	mg/kg	0.62	0.22	EPA-6010B	10000		1
Beryllium	0.43	mg/kg	0.62	0.058	EPA-6010B	75	J	1
Cadmium	ND	mg/kg	0.62	0.064	EPA-6010B	100		1
Chromium	10	mg/kg	0.62	0.062	EPA-6010B	2500		1
Cobalt	3.3	mg/kg	3.1	0.12	EPA-6010B	8000		1
Copper	4.1	mg/kg	1.2	0.062	EPA-6010B	2500		1
Lead	210	mg/kg	3.1	0.51	EPA-6010B	1000		1
Mercury	ND	mg/kg	0.20	0.020	EPA-7471A	20		2
Molybdenum	0.23	mg/kg	3.1	0.062	EPA-6010B	3500	J	1
Nickel	4.2	mg/kg	0.62	0.18	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.2	1.2	EPA-6010B	100		1
Silver	ND	mg/kg	0.62	0.083	EPA-6010B	500		1
Thallium	ND	mg/kg	6.2	0.79	EPA-6010B	700		1
Vanadium	16	mg/kg	0.62	0.14	EPA-6010B	2400		1
Zinc	15	mg/kg	3.1	0.11	EPA-6010B	5000		1

DCN	Method	Prep Date	Run			Dilution	QC	
			Date/Time	Analyst	Instrument		Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 17:24	DVS	PE-OP4	0.962	B162102	EPA 3050B
2	EPA-7471A	03/21/23 14:15	03/22/23 11:30	TMT	CETAC3	1.008	B162367	EPA 7471A

DCN = Data Continuation Number

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2560 Soquel Avenue, Suite 202  
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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-40	Client Sample Name: IMK808, Composite of LSP-13-2', LSP-14-2', LSP-15-2', LSP-16-2', 3/8/2023 11:53:00AM, Kenne & Paulus						
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.9 (AR)	%	0.06	0.06	Calc	ND		1
Solids	80.1 (AR)	%	0.06	0.06	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 13:47	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

DCN = Data Continuation Number

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

BCL Sample ID:	2305048-40	Client Sample Name:	IMK808, Composite of LSP-13-2', LSP-14-2', LSP-15-2', LSP-16-2', 3/8/2023 11:53:00AM, Keenan Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	0.69	mg/kg	6.2	0.41	EPA-6010B	500	J	1
Arsenic	4.3	mg/kg	1.2	0.50	EPA-6010B	500		1
Barium	84	mg/kg	0.62	0.22	EPA-6010B	10000		1
Beryllium	0.49	mg/kg	0.62	0.059	EPA-6010B	75	J	1
Cadmium	ND	mg/kg	0.62	0.065	EPA-6010B	100		1
Chromium	15	mg/kg	0.62	0.062	EPA-6010B	2500		1
Cobalt	3.5	mg/kg	3.1	0.12	EPA-6010B	8000		1
Copper	4.1	mg/kg	1.2	0.062	EPA-6010B	2500		1
Lead	7.8	mg/kg	3.1	0.51	EPA-6010B	1000		1
Mercury	ND	mg/kg	0.20	0.020	EPA-7471A	20		2
Molybdenum	ND	mg/kg	3.1	0.062	EPA-6010B	3500		1
Nickel	6.1	mg/kg	0.62	0.19	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.2	1.2	EPA-6010B	100		1
Silver	ND	mg/kg	0.62	0.084	EPA-6010B	500		1
Thallium	ND	mg/kg	6.2	0.80	EPA-6010B	700		1
Vanadium	22	mg/kg	0.62	0.14	EPA-6010B	2400		1
Zinc	20	mg/kg	3.1	0.11	EPA-6010B	5000		1

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC	
			Date	Time	Batch ID				Prep Method	
1	EPA-6010B	03/17/23 07:40	03/20/23	17:26	B162102	DVS	PE-OP4	0.980	EPA 3050B	
2	EPA-7471A	03/21/23 14:15	03/22/23	11:32	B162367	TMT	CETAC3	0.962	EPA 7471A	

DCN = Data Continuation Number

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID:	2305048-41	Client Sample Name:	IMK808, WTL-1-0.5', 3/8/2023 10:40:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.0044	0.0019	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	mg/kg	0.0044	0.0014	EPA-8270C-SIM	ND		1
Anthracene	ND	mg/kg	0.0044	0.0012	EPA-8270C-SIM	ND		1
<b>Benzo[a]anthracene</b>	<b>0.060</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.0014</b>	<b>EPA-8270C-SIM</b>	ND		1
<b>Benzo[b]fluoranthene</b>	<b>0.10</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.0012</b>	<b>EPA-8270C-SIM</b>	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.0044	0.0016	EPA-8270C-SIM	ND		1
<b>Benzo[a]pyrene</b>	<b>0.091</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.0012</b>	<b>EPA-8270C-SIM</b>	ND		1
<b>Benzo[g,h,i]perylene</b>	<b>0.082</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.0011</b>	<b>EPA-8270C-SIM</b>	ND		1
<b>Chrysene</b>	<b>0.061</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.0016</b>	<b>EPA-8270C-SIM</b>	ND		1
<b>Dibenzo[a,h]anthracene</b>	<b>0.075</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.00071</b>	<b>EPA-8270C-SIM</b>	ND		1
<b>Fluoranthene</b>	<b>0.058</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.0011</b>	<b>EPA-8270C-SIM</b>	ND		1
Fluorene	ND	mg/kg	0.0044	0.0014	EPA-8270C-SIM	ND		1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.076</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.00070</b>	<b>EPA-8270C-SIM</b>	ND		1
Naphthalene	ND	mg/kg	0.0044	0.0013	EPA-8270C-SIM	ND		1
Phenanthrene	ND	mg/kg	0.0044	0.0013	EPA-8270C-SIM	ND		1
<b>Pyrene</b>	<b>0.056</b>	<b>mg/kg</b>	<b>0.0044</b>	<b>0.0018</b>	<b>EPA-8270C-SIM</b>	ND		1
Nitrobenzene-d5 (Surrogate)	40.7	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	20.7	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM	S09		1
p-Terphenyl-d14 (Surrogate)	11.4	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM	S09		1

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC Batch ID	Prep Method
			Date	Time						
1	EPA-8270C-SIM	03/15/23 19:40	03/22/23	15:33		OLH	MS-B7	1.014	B162013	EPA 3550B

DCN = Data Continuation Number

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**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Chemical Analysis

BCL Sample ID:	2305048-41	Client Sample Name:	IMK808, WTL-1-0.5', 3/8/2023 10:40:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	32.4 (AR)	%	0.07	0.07	Calc	ND		1
Solids	67.6 (AR)	%	0.07	0.07	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	03/13/23 08:26	03/22/23 09:32	AMM	Calc	1	B161717	Calc
2	SM-2540G	03/21/23 10:00	03/22/23 07:00	DRC	MANUAL	1	B162362	SM 2540G

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## Total Concentrations (TTLC)

BCL Sample ID:	2305048-41	Client Sample Name:	IMK808, WTL-1-0.5', 3/8/2023 10:40:00AM, Kaempf/Paulus					
Constituent	Dry Basis Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	DCN
Antimony	0.78	mg/kg	7.4	0.49	EPA-6010B	500	J	1
Arsenic	2.8	mg/kg	1.5	0.59	EPA-6010B	500		1
Barium	70	mg/kg	0.74	0.27	EPA-6010B	10000		1
Beryllium	0.34	mg/kg	0.74	0.070	EPA-6010B	75	J	1
Cadmium	0.082	mg/kg	0.74	0.077	EPA-6010B	100	J	1
Chromium	13	mg/kg	0.74	0.074	EPA-6010B	2500		1
Cobalt	2.0	mg/kg	3.7	0.15	EPA-6010B	8000	J	1
Copper	4.5	mg/kg	1.5	0.074	EPA-6010B	2500		1
Lead	51	mg/kg	3.7	0.61	EPA-6010B	1000		1
Mercury	0.084	mg/kg	0.24	0.024	EPA-7471A	20	J	2
Molybdenum	0.093	mg/kg	3.7	0.074	EPA-6010B	3500	J	1
Nickel	4.8	mg/kg	0.74	0.22	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.5	1.5	EPA-6010B	100		1
Silver	ND	mg/kg	0.74	0.099	EPA-6010B	500		1
Thallium	ND	mg/kg	7.4	0.95	EPA-6010B	700		1
Vanadium	16	mg/kg	0.74	0.16	EPA-6010B	2400		1
Zinc	28	mg/kg	3.7	0.13	EPA-6010B	5000		1

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC	
			Date	Time	Batch ID				Prep Method	
1	EPA-6010B	03/17/23 07:40	03/20/23	17:27	B162102	DVS	PE-OP4	0.962	EPA 3050B	
2	EPA-7471A	03/14/23 11:15	03/14/23	14:30	B161857	TMT	CETAC3	0.962	EPA 7471A	

DCN = Data Continuation Number

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**Reported:** 04/18/2023 14:15  
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**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162013							
Acenaphthene	B162013-BLK1	ND	mg/kg	0.0030	0.0013		1
Acenaphthylene	B162013-BLK1	ND	mg/kg	0.0030	0.00092		1
Anthracene	B162013-BLK1	ND	mg/kg	0.0030	0.00081		1
Benzo[a]anthracene	B162013-BLK1	ND	mg/kg	0.0030	0.00096		1
Benzo[b]fluoranthene	B162013-BLK1	ND	mg/kg	0.0030	0.00079		1
Benzo[k]fluoranthene	B162013-BLK1	ND	mg/kg	0.0030	0.0011		1
Benzo[a]pyrene	B162013-BLK1	ND	mg/kg	0.0030	0.00078		1
Benzo[g,h,i]perylene	B162013-BLK1	ND	mg/kg	0.0030	0.00072		1
Chrysene	B162013-BLK1	ND	mg/kg	0.0030	0.0011		1
Dibenz[a,h]anthracene	B162013-BLK1	ND	mg/kg	0.0030	0.00048		1
Fluoranthene	B162013-BLK1	ND	mg/kg	0.0030	0.00075		1
Fluorene	B162013-BLK1	ND	mg/kg	0.0030	0.00097		1
Indeno[1,2,3-cd]pyrene	B162013-BLK1	ND	mg/kg	0.0030	0.00047		1
Naphthalene	B162013-BLK1	ND	mg/kg	0.0030	0.00090		1
Phenanthrene	B162013-BLK1	ND	mg/kg	0.0030	0.00086		1
Pyrene	B162013-BLK1	ND	mg/kg	0.0030	0.0012		1
<b>Nitrobenzene-d5 (Surrogate)</b>	<b>B162013-BLK1</b>	<b>87.5</b>	%	<b>30 - 130 (LCL - UCL)</b>			1
<b>2-Fluorobiphenyl (Surrogate)</b>	<b>B162013-BLK1</b>	<b>73.7</b>	%	<b>40 - 130 (LCL - UCL)</b>			1
<b>p-Terphenyl-d14 (Surrogate)</b>	<b>B162013-BLK1</b>	<b>62.2</b>	%	<b>30 - 130 (LCL - UCL)</b>			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B162013-BLK1	PB	EPA-8270C-SIM	03/15/23	03/16/23 10:52	OLH	MS-B7	1.003

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## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits			Lab Quals	Run #
							Percent Recovery	RPD	RPD		
<b>QC Batch ID: B162013</b>											
Acenaphthene	B162013-BS1	LCS	0.024513	0.033557	mg/kg	73.0	60 - 130			1	
Acenaphthylene	B162013-BS1	LCS	0.025388	0.033557	mg/kg	75.7	60 - 130			1	
Anthracene	B162013-BS1	LCS	0.025308	0.033557	mg/kg	75.4	60 - 130			1	
Benzo[a]anthracene	B162013-BS1	LCS	0.026252	0.033557	mg/kg	78.2	60 - 130			1	
Benzo[b]fluoranthene	B162013-BS1	LCS	0.025665	0.033557	mg/kg	76.5	50 - 130			1	
Benzo[k]fluoranthene	B162013-BS1	LCS	0.026913	0.033557	mg/kg	80.2	60 - 130			1	
Benzo[a]pyrene	B162013-BS1	LCS	0.023093	0.033557	mg/kg	68.8	60 - 130			1	
Benzo[g,h,i]perylene	B162013-BS1	LCS	0.029968	0.033557	mg/kg	89.3	50 - 130			1	
Chrysene	B162013-BS1	LCS	0.023294	0.033557	mg/kg	69.4	50 - 130			1	
Dibenz[a,h]anthracene	B162013-BS1	LCS	0.028359	0.033557	mg/kg	84.5	50 - 130			1	
Fluoranthene	B162013-BS1	LCS	0.027815	0.033557	mg/kg	82.9	60 - 130			1	
Fluorene	B162013-BS1	LCS	0.023973	0.033557	mg/kg	71.4	50 - 130			1	
Indeno[1,2,3-cd]pyrene	B162013-BS1	LCS	0.030058	0.033557	mg/kg	89.6	50 - 130			1	
Naphthalene	B162013-BS1	LCS	0.023959	0.033557	mg/kg	71.4	50 - 130			1	
Phenanthrene	B162013-BS1	LCS	0.023784	0.033557	mg/kg	70.9	50 - 130			1	
Pyrene	B162013-BS1	LCS	0.024953	0.033557	mg/kg	74.4	50 - 130			1	
Nitrobenzene-d5 (Surrogate)	B162013-BS1	LCS	0.11566	0.13423	mg/kg	86.2	30 - 130			1	
2-Fluorobiphenyl (Surrogate)	B162013-BS1	LCS	0.093754	0.13423	mg/kg	69.8	40 - 130			1	
p-Terphenyl-d14 (Surrogate)	B162013-BS1	LCS	0.077437	0.13423	mg/kg	57.7	30 - 130			1	

Run #	QC Sample ID	QC Type	Method	Run				Instrument	Dilution
				Prep Date	Date Time	Analyst			
1	B162013-BS1	LCS	EPA-8270C-SIM	03/15/23	03/16/23 11:15	OLH		MS-B7	1.007

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## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			Lab Quals	R#
								Percent Recovery	RPD	Percent Recovery		
<b>QC Batch ID: B162013</b>		Used client sample: Y - Description: Composite of LSP-5-2', LSP-6-2', LSP-7-2', LSP-8-2', 03/08/2023 10:50										
Acenaphthene	MS	2305048-20	ND	0.0090742	0.033113	mg/kg	27.4		50 - 130	Q03	1	
	MSD	2305048-20	ND	0.015755	0.033784	mg/kg	53.8	46.6	30	50 - 130	Q02,Q 03	2
Acenaphthylene	MS	2305048-20	ND	0.0095007	0.033113	mg/kg	28.7		50 - 130	Q03	1	
	MSD	2305048-20	ND	0.016146	0.033784	mg/kg	51.8	47.8	30	50 - 130	Q02,Q 03	2
Anthracene	MS	2305048-20	ND	0.0092570	0.033113	mg/kg	28.0		50 - 130	Q03	1	
	MSD	2305048-20	ND	0.016467	0.033784	mg/kg	56.1	48.7	30	50 - 130	Q02,Q 03	2
Benzo[a]anthracene	MS	2305048-20	ND	0.010104	0.033113	mg/kg	30.5		50 - 130	Q03	1	
	MSD	2305048-20	ND	0.021384	0.033784	mg/kg	71.6	63.3	30	50 - 130	Q02	2
Benzo[b]fluoranthene	MS	2305048-20	ND	0.0093149	0.033113	mg/kg	28.1		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.025239	0.033784	mg/kg	92.2	74.7	30	40 - 130	Q02	2
Benzo[k]fluoranthene	MS	2305048-20	ND	0.0077401	0.033113	mg/kg	23.4		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.017030	0.033784	mg/kg	75.0	50.4	30	40 - 130	Q02	2
Benzo[a]pyrene	MS	2305048-20	ND	0.010118	0.033113	mg/kg	30.6		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.023057	0.033784	mg/kg	78.0	68.2	30	40 - 130	Q02	2
Benzo[g,h,i]perylene	MS	2305048-20	ND	0.0084930	0.033113	mg/kg	25.6		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.024696	0.033784	mg/kg	97.6	73.1	30	40 - 130	Q02	2
Chrysene	MS	2305048-20	ND	0.0089758	0.033113	mg/kg	27.1		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.018747	0.033784	mg/kg	70.5	55.5	30	40 - 130	Q02	2
Dibenz[a,h]anthracene	MS	2305048-20	ND	0.010033	0.033113	mg/kg	30.3		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.010055	0.033784	mg/kg	0.2	29.8	30	40 - 130	Q03	2
Fluoranthene	MS	2305048-20	ND	0.011850	0.033113	mg/kg	35.8		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.021788	0.033784	mg/kg	59.1	64.5	30	40 - 130	Q02	2
Fluorene	MS	2305048-20	ND	0.0094255	0.033113	mg/kg	28.5		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.015647	0.033784	mg/kg	49.6	46.3	30	40 - 130	Q02	2
Indeno[1,2,3-cd]pyrene	MS	2305048-20	ND	0.0090566	0.033113	mg/kg	27.4		30 - 130	Q03	1	
	MSD	2305048-20	ND	0.023349	0.033784	mg/kg	88.2	69.1	30	30 - 130	Q02	2
Naphthalene	MS	2305048-20	ND	0.0090921	0.033113	mg/kg	27.5		50 - 130	Q03	1	
	MSD	2305048-20	ND	0.014217	0.033784	mg/kg	44.0	42.1	30	50 - 130	Q02,Q 03	2
Phenanthrene	MS	2305048-20	ND	0.0093815	0.033113	mg/kg	28.3		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.016101	0.033784	mg/kg	52.7	47.7	30	40 - 130	Q02	2
Pyrene	MS	2305048-20	ND	0.0098765	0.033113	mg/kg	29.8		40 - 130	Q03	1	
	MSD	2305048-20	ND	0.019286	0.033784	mg/kg	64.5	57.1	30	40 - 130	Q02	2
Nitrobenzene-d5 (Surrogate)	MS	2305048-20	ND	0.063011	0.13245	mg/kg	47.6		30 - 130		1	
	MSD	2305048-20	ND	0.078826	0.13514	mg/kg	22.3	58.3	30 - 130		2	

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## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	<u>Control Limits</u>			
									RPD	Percent Recovery	Lab Quals	R#
<b>QC Batch ID: B162013</b>		Used client sample: Y - Description: Composite of LSP-5-2', LSP-6-2', LSP-7-2', LSP-8-2', 03/08/2023 10:50										
2-Fluorobiphenyl (Surrogate)	MS	2305048-20	ND	0.033565	0.13245	mg/kg		25.3	40 - 130	S09	1	
	MSD	2305048-20	ND	0.057198	0.13514	mg/kg	52.1	42.3	40 - 130		2	
p-Terphenyl-d14 (Surrogate)	MS	2305048-20	ND	0.024730	0.13245	mg/kg		18.7	30 - 130	S09	1	
	MSD	2305048-20	ND	0.042307	0.13514	mg/kg	52.4	31.3	30 - 130		2	

Run #	QC Sample ID	QC Type	Method	Run				Instrument	Dilution
				Prep Date	Date Time	Analyst			
1	B162013-MS1	MS	EPA-8270C-SIM	03/15/23	03/16/23 11:37	OLH		MS-B7	0.993
2	B162013-MSD1	MSD	EPA-8270C-SIM	03/15/23	03/16/23 12:00	OLH		MS-B7	1.014

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## Chemical Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
Moisture	B161717-BLK1	ND	%	0.05	0.05		1
<b>QC Batch ID: B161717</b>							

Run #	QC Sample ID	QC Type	Method	Run			
				Prep Date	Date Time	Analyst	Instrument
1	B161717-BLK1	PB	Calc	03/13/23	03/22/23 09:32	AMM	Calc

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## Chemical Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	<u>Control Limits</u>		
									RPD	Percent Recovery	Lab Quals R#
<b>QC Batch ID: B162362</b>		Used client sample: N									
Solids	DUP	2304933-10	30.540	30.260		%		0.9		20	1
<b>Run</b>											
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution			
1	B162362-DUP1	DUP	SM-2540G	03/21/23	03/22/23 07:00	DRC	MANUAL	1			

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Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## WET Test (STLC)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #	
Lead	B162682-BLK1	ND	mg/L	0.50	0.13		1	
<b>QC Batch ID: B162682</b>								
1	B162682-BLK1	PB	EPA-6010B	03/26/23	03/27/23 11:05	JCC	PE-OP4	
<b>Run</b>								
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution

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## WET Test (STLC)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	<u>Control Limits</u>		
								Percent Recovery	RPD	Lab Quals
<b>QC Batch ID: B162682</b>										
Lead	B162682-BS1	LCS	18.604	20.000	mg/L	93.0		85 - 115		1
<b>Run</b>										
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution		
1	B162682-BS1	LCS	EPA-6010B	03/26/23	03/27/23 11:07	JCC	PE-OP4	1		

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## WET Test (STLC)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	<u>Control Limits</u>		
									RPD	Percent Recovery	Lab Quals R#
<b>QC Batch ID: B162682</b>		Used client sample: N									
Lead	DUP	2304057-01	6.4038	6.4028		mg/L	0.0		20		1
	MS	2304057-01	6.4038	25.238	20.408	mg/L		92.3		75 - 125	2
	MSD	2304057-01	6.4038	25.478	20.408	mg/L	0.9	93.5	20	75 - 125	3

Run #	QC Sample ID	QC Type	Method	Run				Instrument	Dilution
				Prep Date	Date Time	Analyst			
1	B162682-DUP1	DUP	EPA-6010B	03/26/23	03/27/23 11:10	JCC	PE-OP4	1	
2	B162682-MS1	MS	EPA-6010B	03/26/23	03/27/23 11:13	JCC	PE-OP4	1.020	
3	B162682-MSD1	MSD	EPA-6010B	03/26/23	03/27/23 11:15	JCC	PE-OP4	1.020	

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## TCLP Toxicity

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
Lead	B164191-BLK1	ND	mg/L	0.50	0.030		1
<b>Run</b>							
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument
1	B164191-BLK1	PB	EPA-6010B	04/14/23	04/14/23 20:29	JCC	PE-OP3
<b>Dilution</b>							

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## TCLP Toxicity

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	<u>Control Limits</u>		
								Percent Recovery	RPD	Lab Quals
<b>QC Batch ID: B164191</b>										
Lead	B164191-BS1	LCS	20.300	20.000	mg/L	102		85 - 115		1
<b>Run</b>										
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution		
1	B164191-BS1	LCS	EPA-6010B	04/14/23	04/14/23 20:31	JCC	PE-OP3	1		

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## TCLP Toxicity

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	<u>Control Limits</u>			
									RPD	Percent Recovery	Lab Quals	R#
QC Batch ID: B164191												
Lead	DUP	2305048-35	0.83131	2.5089		mg/L	100		20		Q01	1
	MS	2305048-35	0.83131	21.011	20.000	mg/L		101		75 - 125		2
	MSD	2305048-35	0.83131	21.145	20.000	mg/L	0.6	102	20	75 - 125		3

Run #	QC Sample ID	QC Type	Method	Run				Instrument	Dilution
				Prep Date	Date Time	Analyst			
1	B164191-DUP1	DUP	EPA-6010B	04/14/23	04/14/23 20:34	JCC	PE-OP3		1
2	B164191-MS1	MS	EPA-6010B	04/14/23	04/14/23 20:37	JCC	PE-OP3		1
3	B164191-MSD1	MSD	EPA-6010B	04/14/23	04/14/23 20:39	JCC	PE-OP3		1

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## Total Concentrations (TTL)C

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B161857</b>							
Mercury	B161857-BLK1	ND	mg/kg	0.16	0.016		1
<b>QC Batch ID: B161923</b>							
Antimony	B161923-BLK2	ND	mg/kg	5.0	0.33		2
Arsenic	B161923-BLK1	ND	mg/kg	1.0	0.40		3
Barium	B161923-BLK1	ND	mg/kg	0.50	0.18		3
Beryllium	B161923-BLK1	ND	mg/kg	0.50	0.047		3
Cadmium	B161923-BLK1	ND	mg/kg	0.50	0.052		3
<b>Chromium</b>	<b>B161923-BLK1</b>	<b>0.41544</b>	<b>mg/kg</b>	<b>0.50</b>	<b>0.050</b>	<b>J</b>	<b>3</b>
Cobalt	B161923-BLK1	ND	mg/kg	2.5	0.098		3
<b>Copper</b>	<b>B161923-BLK1</b>	<b>0.15467</b>	<b>mg/kg</b>	<b>1.0</b>	<b>0.050</b>	<b>J</b>	<b>3</b>
Lead	B161923-BLK1	ND	mg/kg	2.5	0.41		3
Molybdenum	B161923-BLK1	ND	mg/kg	2.5	0.050		3
<b>Nickel</b>	<b>B161923-BLK1</b>	<b>0.41223</b>	<b>mg/kg</b>	<b>0.50</b>	<b>0.15</b>	<b>J</b>	<b>3</b>
Selenium	B161923-BLK1	ND	mg/kg	1.0	0.98		3
Silver	B161923-BLK1	ND	mg/kg	0.50	0.067		3
Thallium	B161923-BLK1	ND	mg/kg	5.0	0.64		3
Vanadium	B161923-BLK1	ND	mg/kg	0.50	0.11		3
Zinc	B161923-BLK1	ND	mg/kg	2.5	0.087		3
<b>QC Batch ID: B162102</b>							
Antimony	B162102-BLK1	ND	mg/kg	5.0	0.33		4
Arsenic	B162102-BLK1	ND	mg/kg	1.0	0.40		4
Barium	B162102-BLK1	ND	mg/kg	0.50	0.18		4
Beryllium	B162102-BLK1	ND	mg/kg	0.50	0.047		4
Cadmium	B162102-BLK1	ND	mg/kg	0.50	0.052		4
<b>Chromium</b>	<b>B162102-BLK1</b>	<b>0.16876</b>	<b>mg/kg</b>	<b>0.50</b>	<b>0.050</b>	<b>J</b>	<b>4</b>
Cobalt	B162102-BLK1	ND	mg/kg	2.5	0.098		4
Copper	B162102-BLK1	ND	mg/kg	1.0	0.050		4
Lead	B162102-BLK1	ND	mg/kg	2.5	0.41		4
<b>Molybdenum</b>	<b>B162102-BLK1</b>	<b>0.060974</b>	<b>mg/kg</b>	<b>2.5</b>	<b>0.050</b>	<b>J</b>	<b>4</b>
Nickel	B162102-BLK1	ND	mg/kg	0.50	0.15		4
Selenium	B162102-BLK1	ND	mg/kg	1.0	0.98		4
Silver	B162102-BLK1	ND	mg/kg	0.50	0.067		4
Thallium	B162102-BLK1	ND	mg/kg	5.0	0.64		4

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## Total Concentrations (TTL)C

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #	
	<b>QC Batch ID: B162102</b>							
Vanadium	B162102-BLK1	ND	mg/kg	0.50	0.11		4	
Zinc	<b>B162102-BLK1</b>	<b>0.17360</b>	<b>mg/kg</b>	<b>2.5</b>	<b>0.087</b>	<b>J</b>	<b>4</b>	
	<b>QC Batch ID: B162367</b>							
Mercury	B162367-BLK1	0.033760	mg/kg	0.16	0.016	J	5	
<b>Run</b>								
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	
1	B161857-BLK1	PB	EPA-7471A	03/14/23	03/14/23 13:41	TMT	CETAC3	1
2	B161923-BLK2	PB	EPA-6010B	03/15/23	03/21/23 17:39	DVS	PE-OP4	1
3	B161923-BLK1	PB	EPA-6010B	03/15/23	03/17/23 19:45	DVS	PE-OP4	1
3	B161923-BLK1	PB	EPA-6010B	03/15/23	03/17/23 19:45	DVS	PE-OP4	1
3	B161923-BLK1	PB	EPA-6010B	03/15/23	03/17/23 19:45	DVS	PE-OP4	1
3	B161923-BLK1	PB	EPA-6010B	03/15/23	03/17/23 19:45	DVS	PE-OP4	1
3	B161923-BLK1	PB	EPA-6010B	03/15/23	03/17/23 19:45	DVS	PE-OP4	1
4	B162102-BLK1	PB	EPA-6010B	03/17/23	03/20/23 17:08	DVS	PE-OP4	1
4	B162102-BLK1	PB	EPA-6010B	03/17/23	03/20/23 17:08	DVS	PE-OP4	1
4	B162102-BLK1	PB	EPA-6010B	03/17/23	03/20/23 17:08	DVS	PE-OP4	1
4	B162102-BLK1	PB	EPA-6010B	03/17/23	03/20/23 17:08	DVS	PE-OP4	1
4	B162102-BLK1	PB	EPA-6010B	03/17/23	03/20/23 17:08	DVS	PE-OP4	1
5	B162367-BLK1	PB	EPA-7471A	03/21/23	03/22/23 10:46	TMT	CETAC3	1

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## Total Concentrations (TTL)C

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits			Lab Quals	Run #
								Percent Recovery	RPD	Lab Quals		
<b>QC Batch ID: B161857</b>												
Mercury	B161857-BS1	LCS	0.83680	0.80000	mg/kg	105		80 - 120			1	
	B161857-BSD1	LCSD	0.84320	0.80000	mg/kg	105	0.8	80 - 120	20		2	
<b>QC Batch ID: B161923</b>												
Antimony	B161923-BS2	LCS	105.78	100.00	mg/kg	106		75 - 125			3	
Arsenic	B161923-BS1	LCS	20.462	20.000	mg/kg	102		75 - 125			4	
Barium	B161923-BS1	LCS	102.97	100.00	mg/kg	103		75 - 125			4	
Beryllium	B161923-BS1	LCS	10.232	10.000	mg/kg	102		75 - 125			4	
Cadmium	B161923-BS1	LCS	9.7056	10.000	mg/kg	97.1		75 - 125			4	
Chromium	B161923-BS1	LCS	110.79	100.00	mg/kg	111		75 - 125			4	
Cobalt	B161923-BS1	LCS	113.70	100.00	mg/kg	114		75 - 125			4	
Copper	B161923-BS1	LCS	103.28	100.00	mg/kg	103		75 - 125			4	
Lead	B161923-BS1	LCS	103.50	100.00	mg/kg	104		75 - 125			4	
Molybdenum	B161923-BS1	LCS	106.22	100.00	mg/kg	106		75 - 125			4	
Nickel	B161923-BS1	LCS	114.15	100.00	mg/kg	114		75 - 125			4	
Selenium	B161923-BS1	LCS	19.600	20.000	mg/kg	98.0		75 - 125			4	
Silver	B161923-BS1	LCS	10.166	10.000	mg/kg	102		75 - 125			4	
Thallium	B161923-BS1	LCS	108.89	100.00	mg/kg	109		75 - 125			4	
Vanadium	B161923-BS1	LCS	110.36	100.00	mg/kg	110		75 - 125			4	
Zinc	B161923-BS1	LCS	107.69	100.00	mg/kg	108		75 - 125			4	
<b>QC Batch ID: B162102</b>												
Antimony	B162102-BS1	LCS	96.210	100.00	mg/kg	96.2		75 - 125			5	
Arsenic	B162102-BS1	LCS	19.846	20.000	mg/kg	99.2		75 - 125			5	
Barium	B162102-BS1	LCS	102.91	100.00	mg/kg	103		75 - 125			5	
Beryllium	B162102-BS1	LCS	10.114	10.000	mg/kg	101		75 - 125			5	
Cadmium	B162102-BS1	LCS	9.4690	10.000	mg/kg	94.7		75 - 125			5	
Chromium	B162102-BS1	LCS	109.17	100.00	mg/kg	109		75 - 125			5	
Cobalt	B162102-BS1	LCS	114.92	100.00	mg/kg	115		75 - 125			5	
Copper	B162102-BS1	LCS	101.56	100.00	mg/kg	102		75 - 125			5	
Lead	B162102-BS1	LCS	102.74	100.00	mg/kg	103		75 - 125			5	
Molybdenum	B162102-BS1	LCS	105.90	100.00	mg/kg	106		75 - 125			5	
Nickel	B162102-BS1	LCS	113.60	100.00	mg/kg	114		75 - 125			5	
Selenium	B162102-BS1	LCS	19.445	20.000	mg/kg	97.2		75 - 125			5	
Silver	B162102-BS1	LCS	10.012	10.000	mg/kg	100		75 - 125			5	

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## Total Concentrations (TTL)C

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits			Lab Quals	Run #
							Percent Recovery	RPD	RPD		
<b>QC Batch ID: B162102</b>											
Thallium	B162102-BS1	LCS	111.45	100.00	mg/kg	111			75 - 125		5
Vanadium	B162102-BS1	LCS	111.85	100.00	mg/kg	112			75 - 125		5
Zinc	B162102-BS1	LCS	105.22	100.00	mg/kg	105			75 - 125		5
<b>QC Batch ID: B162367</b>											
Mercury	B162367-BS1	LCS	0.73760	0.80000	mg/kg	92.2			80 - 120		6
	B162367-BSD1	LCSD	0.72160	0.80000	mg/kg	90.2	2.2	80 - 120	20		7

Run #	QC Sample ID	QC Type	Method	Run			Instrument	Dilution
				Prep Date	Date Time	Analyst		
1	B161857-BS1	LCS	EPA-7471A	03/14/23	03/14/23 14:04	TMT	CETAC3	1
2	B161857-BSD1	LCSD	EPA-7471A	03/14/23	03/14/23 15:21	TMT	CETAC3	1
3	B161923-BS2	LCS	EPA-6010B	03/15/23	03/21/23 17:40	DVS	PE-OP4	1
4	B161923-BS1	LCS	EPA-6010B	03/15/23	03/17/23 19:47	DVS	PE-OP4	1
4	B161923-BS1	LCS	EPA-6010B	03/15/23	03/17/23 19:47	DVS	PE-OP4	1
4	B161923-BS1	LCS	EPA-6010B	03/15/23	03/17/23 19:47	DVS	PE-OP4	1
4	B161923-BS1	LCS	EPA-6010B	03/15/23	03/17/23 19:47	DVS	PE-OP4	1
5	B162102-BS1	LCS	EPA-6010B	03/17/23	03/20/23 17:10	DVS	PE-OP4	1
5	B162102-BS1	LCS	EPA-6010B	03/17/23	03/20/23 17:10	DVS	PE-OP4	1
5	B162102-BS1	LCS	EPA-6010B	03/17/23	03/20/23 17:10	DVS	PE-OP4	1
5	B162102-BS1	LCS	EPA-6010B	03/17/23	03/20/23 17:10	DVS	PE-OP4	1
5	B162102-BS1	LCS	EPA-6010B	03/17/23	03/20/23 17:10	DVS	PE-OP4	1
6	B162367-BS1	LCS	EPA-7471A	03/21/23	03/22/23 10:50	TMT	CETAC3	1
7	B162367-BSD1	LCSD	EPA-7471A	03/21/23	03/22/23 11:57	TMT	CETAC3	1

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### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits			
									RPD	Percent Recovery	Lab Quals	R#
<b>QC Batch ID: B161857</b>		Used client sample: N										
Mercury	DUP	2304386-01	0.017031	0.052969		mg/kg	103		20		J,A02	1
	MS	2304386-01	0.017031	0.84844	0.78125	mg/kg		106		80 - 120		2
	MSD	2304386-01	0.017031	0.82656	0.78125	mg/kg	2.6	104	20	80 - 120		3
<b>QC Batch ID: B161923</b>		Used client sample: N										
Antimony	DUP	2304081-01	ND	ND		mg/kg			20			4
	MS	2304081-01	ND	49.326	100.00	mg/kg		49.3		16 - 119		5
	MSD	2304081-01	ND	48.463	100.00	mg/kg	1.8	48.5	20	16 - 119		6
Arsenic	DUP	2304081-01	2.6167	2.0733		mg/kg	23.2		20		Q01	7
	MS	2304081-01	2.6167	22.597	20.000	mg/kg		99.9		75 - 125		8
	MSD	2304081-01	2.6167	22.476	20.000	mg/kg	0.5	99.3	20	75 - 125		9
Barium	DUP	2304081-01	33.694	39.465		mg/kg	15.8		20			7
	MS	2304081-01	33.694	140.14	100.00	mg/kg		106		75 - 125		8
	MSD	2304081-01	33.694	135.43	100.00	mg/kg	3.4	102	20	75 - 125		9
Beryllium	DUP	2304081-01	0.093881	0.096401		mg/kg	2.6		20		J	7
	MS	2304081-01	0.093881	9.9748	10.000	mg/kg		98.8		75 - 125		8
	MSD	2304081-01	0.093881	9.9970	10.000	mg/kg	0.2	99.0	20	75 - 125		9
Cadmium	DUP	2304081-01	ND	0.53732		mg/kg			20			7
	MS	2304081-01	ND	9.5808	10.000	mg/kg		95.8		75 - 125		8
	MSD	2304081-01	ND	9.6431	10.000	mg/kg	0.6	96.4	20	75 - 125		9
Chromium	DUP	2304081-01	4.8148	4.8679		mg/kg	1.1		20			7
	MS	2304081-01	4.8148	109.70	100.00	mg/kg		105		75 - 125		8
	MSD	2304081-01	4.8148	108.42	100.00	mg/kg	1.2	104	20	75 - 125		9
Cobalt	DUP	2304081-01	2.2701	2.4215		mg/kg	6.5		20		J	7
	MS	2304081-01	2.2701	106.82	100.00	mg/kg		105		75 - 125		8
	MSD	2304081-01	2.2701	106.96	100.00	mg/kg	0.1	105	20	75 - 125		9
Copper	DUP	2304081-01	5.8641	8.8070		mg/kg	40.1		20		Q01	7
	MS	2304081-01	5.8641	112.98	100.00	mg/kg		107		75 - 125		8
	MSD	2304081-01	5.8641	110.71	100.00	mg/kg	2.0	105	20	75 - 125		9
Lead	DUP	2304081-01	9.7886	14.329		mg/kg	37.7		20		Q01	7
	MS	2304081-01	9.7886	108.34	100.00	mg/kg		98.5		75 - 125		8
	MSD	2304081-01	9.7886	110.13	100.00	mg/kg	1.6	100	20	75 - 125		9
Molybdenum	DUP	2304081-01	ND	ND		mg/kg			20			7
	MS	2304081-01	ND	98.395	100.00	mg/kg		98.4		75 - 125		8
	MSD	2304081-01	ND	99.932	100.00	mg/kg	1.6	99.9	20	75 - 125		9
Nickel	DUP	2304081-01	3.2043	3.7630		mg/kg	16.0		20			7
	MS	2304081-01	3.2043	109.81	100.00	mg/kg		107		75 - 125		8
	MSD	2304081-01	3.2043	110.06	100.00	mg/kg	0.2	107	20	75 - 125		9

RRM, Inc.  
2560 Soquel Avenue, Suite 202  
Santa Cruz, CA 95062

**Reported:** 04/18/2023 14:15  
**Project:** Soil Samples - Dry weight  
**Project Number:** IMK808  
**Project Manager:** Matt Paulus

## Total Concentrations (TTLC)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits			
									RPD	Percent Recovery	Lab Quals	R#
<b>QC Batch ID: B161923</b>		Used client sample: N										
Selenium	DUP	2304081-01	ND	ND		mg/kg		20				7
	MS	2304081-01	ND	18.971	20.000	mg/kg		94.9		75 - 125		8
	MSD	2304081-01	ND	18.742	20.000	mg/kg	1.2	93.7	20	75 - 125		9
Silver	DUP	2304081-01	ND	ND		mg/kg		20				7
	MS	2304081-01	ND	9.4503	10.000	mg/kg		94.5		75 - 125		8
	MSD	2304081-01	ND	9.5761	10.000	mg/kg	1.3	95.8	20	75 - 125		9
Thallium	DUP	2304081-01	ND	ND		mg/kg		20				7
	MS	2304081-01	ND	107.53	100.00	mg/kg		108		75 - 125		8
	MSD	2304081-01	ND	107.88	100.00	mg/kg	0.3	108	20	75 - 125		9
Vanadium	DUP	2304081-01	19.485	19.560		mg/kg	0.4	20				7
	MS	2304081-01	19.485	120.55	100.00	mg/kg		101		75 - 125		8
	MSD	2304081-01	19.485	125.01	100.00	mg/kg	3.6	106	20	75 - 125		9
Zinc	DUP	2304081-01	28.629	61.266		mg/kg	72.6	20			<b>Q01</b>	7
	MS	2304081-01	28.629	133.75	100.00	mg/kg		105		75 - 125		8
	MSD	2304081-01	28.629	137.23	100.00	mg/kg	2.6	109	20	75 - 125		9
<b>QC Batch ID: B162102</b>		Used client sample: N										
Antimony	DUP	2305195-02	0.60814	0.40447		mg/kg	40.2	20			<b>J,A02</b>	10
	MS	2305195-02	0.60814	24.493	100.00	mg/kg		23.9		16 - 119		11
	MSD	2305195-02	0.60814	27.161	100.00	mg/kg	10.3	26.6	20	16 - 119		12
Arsenic	DUP	2305195-02	5.1264	4.4441		mg/kg	14.3	20				10
	MS	2305195-02	5.1264	22.461	20.000	mg/kg		86.7		75 - 125		11
	MSD	2305195-02	5.1264	22.737	20.000	mg/kg	1.2	88.1	20	75 - 125		12
Barium	DUP	2305195-02	262.47	315.93		mg/kg	18.5	20				10
	MS	2305195-02	262.47	346.21	100.00	mg/kg		83.7		75 - 125		11
	MSD	2305195-02	262.47	355.81	100.00	mg/kg	2.7	93.3	20	75 - 125		12
Beryllium	DUP	2305195-02	0.24099	0.26867		mg/kg	10.9	20			<b>J</b>	10
	MS	2305195-02	0.24099	8.8747	10.000	mg/kg		86.3		75 - 125		11
	MSD	2305195-02	0.24099	9.0285	10.000	mg/kg	1.7	87.9	20	75 - 125		12
Cadmium	DUP	2305195-02	0.56537	0.61405		mg/kg	8.3	20				10
	MS	2305195-02	0.56537	9.2840	10.000	mg/kg		87.2		75 - 125		11
	MSD	2305195-02	0.56537	9.4520	10.000	mg/kg	1.8	88.9	20	75 - 125		12
Chromium	DUP	2305195-02	23.563	22.505		mg/kg	4.6	20				10
	MS	2305195-02	23.563	107.29	100.00	mg/kg		83.7		75 - 125		11
	MSD	2305195-02	23.563	113.20	100.00	mg/kg	5.4	89.6	20	75 - 125		12
Cobalt	DUP	2305195-02	5.5738	5.9027		mg/kg	5.7	20				10
	MS	2305195-02	5.5738	94.213	100.00	mg/kg		88.6		75 - 125		11
	MSD	2305195-02	5.5738	96.915	100.00	mg/kg	2.8	91.3	20	75 - 125		12

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## Total Concentrations (TTL)C

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits			
									RPD	Percent Recovery	Lab Quals	R#
<b>QC Batch ID: B162102</b>		Used client sample: N										
Copper	DUP	2305195-02	46.984	48.703		mg/kg	3.6		20			10
	MS	2305195-02	46.984	138.42	100.00	mg/kg		91.4		75 - 125		11
	MSD	2305195-02	46.984	196.15	100.00	mg/kg	34.5	149	20	75 - 125	Q03	12
Lead	DUP	2305195-02	41.625	44.965		mg/kg	7.7		20			10
	MS	2305195-02	41.625	131.51	100.00	mg/kg		89.9		75 - 125		11
	MSD	2305195-02	41.625	133.49	100.00	mg/kg	1.5	91.9	20	75 - 125		12
Molybdenum	DUP	2305195-02	1.8114	1.7105		mg/kg	5.7		20		J	10
	MS	2305195-02	1.8114	90.821	100.00	mg/kg		89.0		75 - 125		11
	MSD	2305195-02	1.8114	88.454	100.00	mg/kg	2.6	86.6	20	75 - 125		12
Nickel	DUP	2305195-02	15.920	16.049		mg/kg	0.8		20			10
	MS	2305195-02	15.920	104.00	100.00	mg/kg		88.1		75 - 125		11
	MSD	2305195-02	15.920	107.26	100.00	mg/kg	3.1	91.3	20	75 - 125		12
Selenium	DUP	2305195-02	ND	ND		mg/kg			20			10
	MS	2305195-02	ND	15.362	20.000	mg/kg		76.8		75 - 125		11
	MSD	2305195-02	ND	15.769	20.000	mg/kg	2.6	78.8	20	75 - 125		12
Silver	DUP	2305195-02	0.16822	ND		mg/kg			20			10
	MS	2305195-02	0.16822	8.3694	10.000	mg/kg		82.0		75 - 125		11
	MSD	2305195-02	0.16822	8.5231	10.000	mg/kg	1.8	83.5	20	75 - 125		12
Thallium	DUP	2305195-02	ND	ND		mg/kg			20			10
	MS	2305195-02	ND	85.885	100.00	mg/kg		85.9		75 - 125		11
	MSD	2305195-02	ND	87.877	100.00	mg/kg	2.3	87.9	20	75 - 125		12
Vanadium	DUP	2305195-02	25.264	26.373		mg/kg	4.3		20			10
	MS	2305195-02	25.264	117.65	100.00	mg/kg		92.4		75 - 125		11
	MSD	2305195-02	25.264	118.30	100.00	mg/kg	0.5	93.0	20	75 - 125		12
Zinc	DUP	2305195-02	284.59	309.59		mg/kg	8.4		20			10
	MS	2305195-02	284.59	381.70	100.00	mg/kg		97.1		75 - 125		11
	MSD	2305195-02	284.59	399.57	100.00	mg/kg	4.6	115	20	75 - 125		12
<b>QC Batch ID: B162367</b>		Used client sample: N										
Mercury	DUP	2305527-01	ND	ND		mg/kg			20			13
	MS	2305527-01	ND	0.84921	0.79365	mg/kg		107		80 - 120		14
	MSD	2305527-01	ND	0.75714	0.79365	mg/kg	11.5	95.4	20	80 - 120		15

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**Project Manager:** Matt Paulus

## Total Concentrations (TTL)C

### Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161857-DUP1	DUP	EPA-7471A	03/14/23	03/14/23 13:47	TMT	CETAC3	0.977
2	B161857-MS1	MS	EPA-7471A	03/14/23	03/14/23 13:49	TMT	CETAC3	0.977
3	B161857-MSD1	MSD	EPA-7471A	03/14/23	03/14/23 13:56	TMT	CETAC3	0.977
4	B161923-DUP2	DUP	EPA-6010B	03/15/23	03/21/23 17:43	DVS	PE-OP4	1
5	B161923-MS2	MS	EPA-6010B	03/15/23	03/21/23 17:46	DVS	PE-OP4	1
6	B161923-MSD2	MSD	EPA-6010B	03/15/23	03/21/23 17:47	DVS	PE-OP4	1
7	B161923-DUP1	DUP	EPA-6010B	03/15/23	03/17/23 19:50	DVS	PE-OP4	1
7	B161923-DUP1	DUP	EPA-6010B	03/15/23	03/17/23 19:50	DVS	PE-OP4	1
7	B161923-DUP1	DUP	EPA-6010B	03/15/23	03/17/23 19:50	DVS	PE-OP4	1
7	B161923-DUP1	DUP	EPA-6010B	03/15/23	03/17/23 19:50	DVS	PE-OP4	1
7	B161923-DUP1	DUP	EPA-6010B	03/15/23	03/17/23 19:50	DVS	PE-OP4	1
8	B161923-MS1	MS	EPA-6010B	03/15/23	03/17/23 19:53	DVS	PE-OP4	1
8	B161923-MS1	MS	EPA-6010B	03/15/23	03/17/23 19:53	DVS	PE-OP4	1
8	B161923-MS1	MS	EPA-6010B	03/15/23	03/17/23 19:53	DVS	PE-OP4	1
8	B161923-MS1	MS	EPA-6010B	03/15/23	03/17/23 19:53	DVS	PE-OP4	1
8	B161923-MS1	MS	EPA-6010B	03/15/23	03/17/23 19:53	DVS	PE-OP4	1
8	B161923-MS1	MS	EPA-6010B	03/15/23	03/17/23 19:53	DVS	PE-OP4	1
9	B161923-MSD1	MSD	EPA-6010B	03/15/23	03/17/23 19:54	DVS	PE-OP4	1
9	B161923-MSD1	MSD	EPA-6010B	03/15/23	03/17/23 19:54	DVS	PE-OP4	1
9	B161923-MSD1	MSD	EPA-6010B	03/15/23	03/17/23 19:54	DVS	PE-OP4	1
9	B161923-MSD1	MSD	EPA-6010B	03/15/23	03/17/23 19:54	DVS	PE-OP4	1
10	B162102-DUP1	DUP	EPA-6010B	03/17/23	03/20/23 17:13	DVS	PE-OP4	1
10	B162102-DUP1	DUP	EPA-6010B	03/17/23	03/20/23 17:13	DVS	PE-OP4	1
10	B162102-DUP1	DUP	EPA-6010B	03/17/23	03/20/23 17:13	DVS	PE-OP4	1
10	B162102-DUP1	DUP	EPA-6010B	03/17/23	03/20/23 17:13	DVS	PE-OP4	1
10	B162102-DUP1	DUP	EPA-6010B	03/17/23	03/20/23 17:13	DVS	PE-OP4	1
10	B162102-DUP1	DUP	EPA-6010B	03/17/23	03/20/23 17:13	DVS	PE-OP4	1
11	B162102-MS1	MS	EPA-6010B	03/17/23	03/20/23 17:15	DVS	PE-OP4	1

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## Total Concentrations (TTL)C

### Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Run		Analyst	Instrument	Dilution
				Prep Date	Date Time			
11	B162102-MS1	MS	EPA-6010B	03/17/23	03/20/23 17:15	DVS	PE-OP4	1
11	B162102-MS1	MS	EPA-6010B	03/17/23	03/20/23 17:15	DVS	PE-OP4	1
11	B162102-MS1	MS	EPA-6010B	03/17/23	03/20/23 17:15	DVS	PE-OP4	1
11	B162102-MS1	MS	EPA-6010B	03/17/23	03/20/23 17:15	DVS	PE-OP4	1
11	B162102-MS1	MS	EPA-6010B	03/17/23	03/20/23 17:15	DVS	PE-OP4	1
11	B162102-MS1	MS	EPA-6010B	03/17/23	03/20/23 17:15	DVS	PE-OP4	1
12	B162102-MSD1	MSD	EPA-6010B	03/17/23	03/20/23 17:17	DVS	PE-OP4	1
12	B162102-MSD1	MSD	EPA-6010B	03/17/23	03/20/23 17:17	DVS	PE-OP4	1
12	B162102-MSD1	MSD	EPA-6010B	03/17/23	03/20/23 17:17	DVS	PE-OP4	1
12	B162102-MSD1	MSD	EPA-6010B	03/17/23	03/20/23 17:17	DVS	PE-OP4	1
12	B162102-MSD1	MSD	EPA-6010B	03/17/23	03/20/23 17:17	DVS	PE-OP4	1
12	B162102-MSD1	MSD	EPA-6010B	03/17/23	03/20/23 17:17	DVS	PE-OP4	1
13	B162367-DUP1	DUP	EPA-7471A	03/21/23	03/22/23 10:55	TMT	CETAC3	0.992
14	B162367-MS1	MS	EPA-7471A	03/21/23	03/22/23 10:57	TMT	CETAC3	0.992
15	B162367-MSD1	MSD	EPA-7471A	03/21/23	03/22/23 10:59	TMT	CETAC3	0.992

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## Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A10 Detection and quantitation limits were raised due to matrix interference.
- Q01 Sample precision is not within the control limits.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S09 The surrogate recovery for this compound was not within the control limits.