APPENDIX C-4
PHASE II ESA

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

915 Highland Pointe Drive, Suite 250
Roseville, California 95678
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October 15, 2018

Mike Campbell
Project Manager
David J. Powers & Associates, Inc.
Sent via email: MCampbell@davidjpowers.com
1111 Broadway, Suite 1510
Oakland, CA, 94607
Phone: (510) 458-3041

Subject: Limited Phase II Environmental Site Assessment
Roseland Creek Community Park
Santa Rosa, California
ATC Project No. 1141800009

Dear Mr. Campbell:

ATC Group Services LLC (ATC) has prepared this *Limited Phase II Environmental Site Assessment* (Phase II ESA) report for the Roseland Creek Community Park development in Santa Rosa, California to present the results of our Phase II ESA performed in May and June of 2018.

1.0 BACKGROUND

The site is bound by Burbank Avenue to the west, McMinn Avenue and residential houses to the east, residential houses to the north and a ranch to the south. The property is rectangular in shape consisting of the Roseland Creek Community Park property with two parcels, 10.97 acres in the north and 5.96 acres in the south, with a 2.61 acre private property (1372 Burbank Avenue from west to east) separating the two parcels (**Figure 1**).

The Phase II ESA was performed in support of a CEQA Initial Study for the proposed development. The Phase II ESA scope was originally designed to address the following potential environmental conditions identified at the site:

1. A refuse dump on the northwest side of Roseland Creek where household debris and automotive parts where observed, as reported in a Phase I ESA prepared by ECON in 2010. ECON concluded this presents a material threat of a potential release of hazardous substances or petroleum products,

2. Historic agricultural use, including orchards, may have resulted in contamination of shallow soil with pesticides and arsenic, in ATC's opinion, and

3. Use of lead paint on older structures at the site may have resulted in the contamination of soil with lead.

Note that due excessive vegetation overgrowth at the site, fourteen of the originally proposed samples locations were not accessible and were not sampled, including proposed samples in the refuse dump area cited in Item 1 above. Sample locations are shown on **Figure 2.**

2.0 SITE INVESTIGATION SCOPE

ATC collected shallow soil samples at 30 locations, from a depth of 0.5 to 1 foot below ground surface (bgs). Forty-two (42) locations were originally proposed, however, due to vegetation overgrowth, fourteen locations were inaccessible. Additional details regarding the completed scope of work are described below.

2.1 Site Health and Safety Plan

As required by the Occupational Safety and Health Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120), and by California Occupational Safety and Health Administration (Cal-OSHA) "Hazardous Waste Operations and Emergency Response" guidelines (CCR Title 8, Section 5192), ATC prepared Site-Specific Health and Safety Plan (HASP) prior to the commencement of fieldwork. The Site-Specific HASP was reviewed and signed by field staff before beginning field operations at the site.

2.2 Subsurface Utility Clearance

Prior to field activities, ATC marked the proposed boring locations in accordance with the Underground Service Alert (USA) guidelines, and notified USA of subsurface activities so existing underground utilities in the area of the proposed borings could be located and avoided.

2.3 Exploratory Soil Borings

Between May 30, 2018 and June 1, 2018, ATC advanced thirty (30) shallow soil borings at the site (S-1 through S-12, S-25 through S-30, and S-33 through S-44). Each boring was advanced to a total depth of 1 foot bgs, using a hand trowel, in order to collect shallow surficial soil samples. **Figure 2** depicts the soil boring locations.

Soil samples were collected from each boring at a depth of 0.5 to 1 foot bgs. Samples were collected using a hand trowel and contained in clean laboratory supplied glass jars. Once retrieved, soil samples were labeled, placed in a cooler with ice, and chilled to approximately 4° C pending transport to the analytical laboratory. Each location was then backfilled with surrounding soil and spoils.

Field notes are provided in **Attachment A**.

2.5 Waste Disposal

No investigation derived waste (IDW) was generated during the activities.

3.0 LABORATORY ANALYSES AND RESULTS

The collected soil samples were submitted to BC Laboratories, Inc. of Bakersfield, California, a state-certified laboratory under standard chain-of-custody protocol. The soil samples were analyzed for the following analytes:

- Organochloride pesticides by EPA Method 8081A, and
- Lead and Arsenic by EPA Methods 6010B.

3.1 Laboratory Analytical Results

Provided below is a summary of the reported laboratory analytical results of the 30 soil samples collected during the investigation.

Organochloride Pesticides

- Chlordane was detected above the respective reporting limit in one sample at a concentration of 0.061 mg/kg in samples S-6.
- 4,4'-DDD was detected above the respective reporting limits in 17 of the samples at concentrations ranging from 0.00075 mg/kg in sample S-3 to 0.020 mg/kg in sample S-43.
- 4,4'-DDE was detected above the respective reporting limits in 19 of the samples at concentrations ranging from 0.00054 mg/kg in sample S-29 to 0.021 mg/kg in samples S-27 and S-28.
- 4,4'-DDT was detected above the respective reporting limits in 22 of the samples at concentrations ranging from 0.00074 mg/kg in sample S-35 to 0.048 mg/kg in samples S-43.
- Dieldrin was detected above the respective reporting limits in four of the samples at concentrations ranging from 0.00058 mg/kg in sample S-33 to 0.013 mg/kg in samples S-44.

Lead and Arsenic

- Lead was detected above the respective reporting limits in all 6 soil samples analyzed (S-6, S-25 through S-27, S-43, and S-44) at concentrations ranging from 29 mg/kg in sample S-43 to 120 mg/kg in sample S-26.
- Arsenic was detected above the respective reporting limits in all 30 soil samples at concentrations ranging from 2.7 mg/kg in sample S-28 to 5.5 mg/kg in sample S-6.

Laboratory analytical data for detected constituents are summarized on **Table 1**. Laboratory analytical reports are provided in **Attachment B**.

3.2 Comparison to Applicable Screening Levels

For the purpose of this investigation, ATC compared laboratory analytical data to the following applicable health-based screening levels.

Health-Based Screening Levels

- San Francisco Bay- Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESL), February 2016 (Rev. 3), Table S-1, Direct Exposure Human Health Risk Levels; Residential, Shallow Soil Exposure.

The respective ESLs for detected constituents are presented on **Table 1**. A summary comparison of the laboratory analytical results to the applicable health-based screening levels is provided below:

- Organochloride pesticides – Detected organochloride pesticides were not reported in any soil samples at concentrations in excess of the respective ESLs.

- Lead and Arsenic - Lead was detected at concentrations above the ESL of 80 mg/kg in 2 of 6 samples at concentrations of 120 mg/kg in S-26 and 110 mg/kg in S-44. Arsenic was detected above the ESL of 0.067 mg/kg in all 30 samples analyzed at concentrations ranging from 2.7 mg/kg in sample S-28 to 5.5 mg/kg in sample S-6.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The site characterization activities performed by ATC included completing 30 soil borings (S-1 through S-12, S-25 through S-30, and S-33 through S-44) to depths of approximately 1 foot bgs. Soil samples were collected from each boring from a depth of 0.5 to 1 foot bgs. Samples were analyzed for organochloride pesticides, lead, and arsenic.

Due to access issues related to vegetation overgrowth and a vagrant encampment, ATC was unable to collect samples from approximate 30 percent of the proposed locations from the former orchard areas, ten of the 42 proposed locations. In ATC's opinion, the samples collected from former orchard areas are likely representative of the unsampled orchard areas. Based on the absence of ESL exceedances for pesticides, we do not recommend pursuing further sample collection in the unsampled orchard areas. Additionally, although all 30 samples exceeded the arsenic ESL, it is well documented concentrations of this magnitude are within typical arsenic background concentrations for Northern California. Therefore, no additional action is recommended with respect to arsenic concentrations.

Reported concentrations of lead exceeding the ESL were detected in samples collected adjacent to existing structures at the site. These elevated lead concentrations are most likely the result of lead-based paint debris fallen from these structures. We suspect the elevated lead concentrations are confined to the top one foot of soil in the vicinity of the structures. ATC recommends a lead-based paint survey be performed on these structures prior to demolition. Additionally, this impacted soil should be mitigated by excavation (scraping) and proper disposal, or by capping with clean fill material. No additional soil sampling is recommended at this time.

Finally, ATC was unable to access the area of a refuse dump on the northwest side of Roseland Creek (near proposed sample locations S-31 and S-32) where household debris and automotive parts where observed, as reported in a Phase I ESA prepared by ECON in 2010. ECON concluded this debris presents a material threat of a potential release of hazardous substances or petroleum products. ATC recommends this area be sampled in the future once it is accessible.

6.0 CLOSING

If you have any questions please contact Mr. Gabe Stivala at (925) 223-7123.

Sincerely,
ATC Group Services LLC

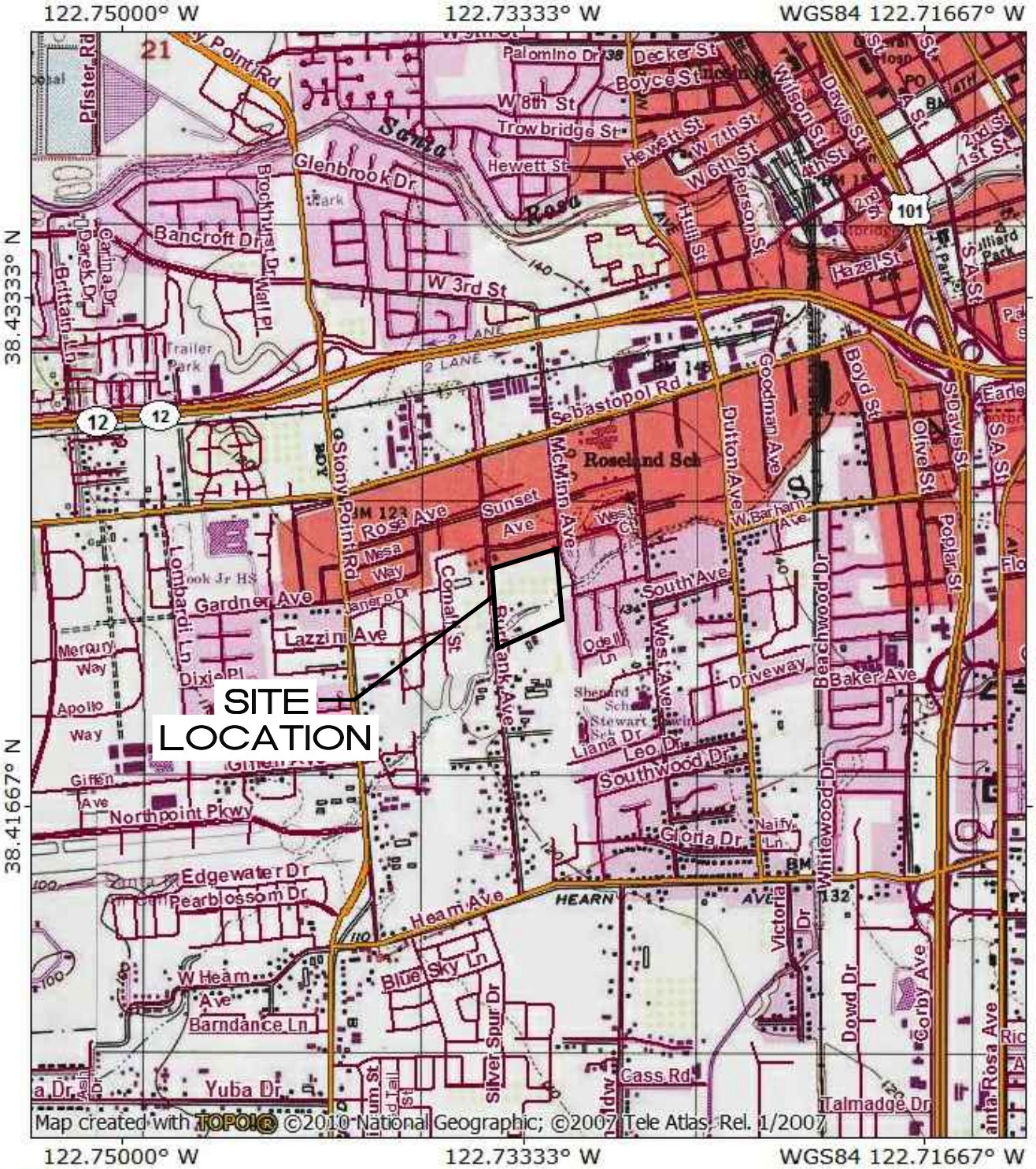
Gabriel V. Stivala, P.G.
Senior Geologist
Direct Line +1 925 223 7123
Email: gabe.stivala@atcgs.com

Sara E. Bostick
Sr. Project Manager
Direct Line + 1 707 291 0425
Email: sara.bostick@atcgs.com

Attachments:

Figure 1	Site Vicinity
Figure 2	Site Plan with Boring Locations
Table 1	Soil Analytical Results
Attachment A	Field Notes
Attachment B	Laboratory Analytical Report

Figures



NATIONAL GEOGRAPHIC

SOURCE: NG USGS TOPO MAP, SANTA ROSA, CA QUAD, 1998

SITE LOCATION MAP

ROSELAND CREEK COMMUNITY PARK PROPERTY
SANTA ROSA, CA

PROJECT NUMBER: 1141800009		DATE: 5/16/18	FIGURE 1
APPROVED BY: GS		DRAWN BY: BK	

ATC
915 Highland Point Dr., Ste. 250
Roseville, California 95678
Ph: (916) 924-5247 *** Fax: (916) 724-5201

S:\Projects-BST\DAVID POWERS\1141800009 ROSELAND CREEK\VICINITY.dwg

LEGEND

SOIL BORING THAT WAS SAMPLED

SOIL BORING NOT SAMPLED DUE TO SAFETY HAZARD

Soil sample location

Proposed soil sample locations inaccessible due to excessive vegetation overgrowth.

0 200

APPROX. SCALE, FT

NOTE: SCALE AND LOCATIONS ARE APPROX.

S:\Projects-BST\DAVID POWERS\1141800009 ROSELAND CREEK\BOREMAP_071018.dwg

SAMPLING LOCATION MAP

ROSELAND CREEK COMMUNITY PARK PROPERTY
SANTA ROSA, CA

PROJECT NUMBER: 1141800009
APPROVED BY: GS
DATE: 7/10/18
DRAWN BY: BK

FIGURE 2

ATC
915 Highland Point Dr., Ste. 250
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Table

TABLE 1
Soil Analytical Results
Roseland Creek Community Park
1372 Burbank Ave., Santa Rosa, CA

Sample ID	Depth (feet bgs)	Sample Date	Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Lead	Arsenic
			EPA Method 8081					EPA Method 6010B	
			All concentrations in mg/kg						
	ESL Residential Shallow Soil:		*0.48*	*2.7*	*1.9*	*1.9*	*0.038*	*80*	*0.067*
S-1	0.5-1	6/1/2018	<0.96	<0.0096	<0.0096	<0.0096	<0.0096	--	**3.2**
S-2	0.5-1	6/1/2018	<0.050	0.0015	0.0069	0.0066	<0.00050	--	**3.3**
S-3	0.5-1	6/1/2018	<0.050	0.00075	0.0028	0.0025	<0.00050	--	**3.3**
S-4	0.5-1	6/1/2018	<0.050	0.00077	0.0023	0.0022	<0.00050	--	**4.1**
S-5	0.5-1	6/1/2018	<0.050	0.0039	0.015	0.013	<0.00050	--	**4.2**
S-6	0.5-1	5/30/2018	0.061	0.0038	0.0098	0.0062	<0.00050	44	**5.5**
S-7	0.5-1	6/1/2018	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	--	**3.4**
S-8	0.5-1	6/1/2018	<0.050	0.0019	0.0078	0.0076	<0.00050	--	**4.8**
S-9	0.5-1	6/1/2018	<0.050	0.0028	0.014	0.010	0.00078	--	**3.7**
S-10	0.5-1	6/1/2018	<0.050	0.0031	0.012	0.010	<0.00050	--	**4.4**
S-11	0.5-1	6/1/2018	<0.050	0.0033	0.011	0.011	<0.00050	--	**3.9**
S-12	0.5-1	6/1/2018	<0.050	<0.0050	<0.0050	0.0058	<0.0050	--	**4.2**
S-25	0.5-1	5/30/2018	<0.050	0.0056	0.0063	0.011	<0.0050	34	**3.7**
S-26	0.5-1	5/30/2018	<0.98	0.016	0.02	0.047	<0.0098	**120**	**3.5**
S-27	0.5-1	5/31/2018	<0.50	0.0099	0.021	0.025	<0.0050	36	**3.3**
S-28	0.5-1	5/31/2018	<0.25	0.011	0.021	0.014	0.0032	--	**2.7**
S-29	0.5-1	5/31/2018	<0.050	<0.00050	0.00054	0.00094	<0.00050	--	**2.9**
S-30	0.5-1	5/31/2018	<0.25	0.0058	0.0054	0.017	<0.0025	--	**3.2**
S-33	0.5-1	5/31/2018	<0.050	0.00093	0.00057	0.0053	0.00058	--	**2.8**
S-34	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	0.00075	<0.00050	--	**2.7**
S-35	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	0.00074	<0.00050	--	**4.1**
S-36	0.5-1	5/31/2018	<0.050	<0.00050	0.00071	0.0013	<0.00050	--	**5.2**
S-37	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	**2.6**
S-38	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	**3.2**
S-39	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	**4.0**
S-40	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	**3.0**
S-41	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	**3.2**
S-42	0.5-1	5/31/2018	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	--	**3.8**
S-43	0.5-1	5/30/2018	<0.050	0.020	0.018	0.048	0.0065	29	**4.1**
S-44	0.5-1	5/30/2018	<0.050	0.011	0.004	0.023	0.013	**110**	**3**

NOTES:

bgs	Below ground surface
mg/kg	Milligrams per kilogram
EPA	Environmental Protection Agency
4,4'-DDD	Dichlorodiphenyldichloroethane
4,4'-DDE	Dichlorodiphenyldichloroethene
4,4'-DDT	Dichlorodiphenyltrichloroethane
<0.050	Constituent not detected above specific laboratory reporting limit.
--	Not analyzed
ESL Residential Shallow Soil	Environmental Screening Level for Tier 1/SWRCB Region 2 ESL Tables February 2016 (Rev. 3); Table S-1 Direct Exposure Human Health Risk Levels; Res: Shallow Soil Exposure
BOLD	Reported value exceeds ESL

Attachment A

Field Notes

ATC Group Services LLC

1117 Lone Palm Ave., Suite 201B
Modesto, California 95351
(209) 579-2221 Phone
(209) 579-2225 Fax

Service Request Form
Surface Soil Sampling

Date of SRF 5/29/2018

Site Information

Site Name: Roseland Creek Community Park Property | Project No. 1141800009 | Task No. 54001

Contact: Gabe Stivala | Phone No. (925) 223-7123 | Labor Code No. 09012

Scope of Work

1. Conduct tailgate H&S meeting. Site is a vacant lot with private property at 1372 Burbank Ave. in the middle.
2. Contact potential stakeholders and discuss scope, obtain contact info for future work
3. Sample soil points S-1 through S-42.
4. Take handheld GPS and minimum of six cones. Identify GPS location of each row using cones. Document with photos.
5. Obtain surface soil samples from depth of six inches (6") to one foot (1 ft.) on all samples, except Refuse area. Refuse samples are to be from one and a half feet (1.5 ft.) to two feet (2 ft.) in depth.
6. Backfill sample location with residual soil.
7. Samples to be transported to BC Laboratories under chain of custody protocol
8. All samples to be analyzed for organochlorine pesticides by EPA 8081A. Include arsenic by 6010B in past agricultural areas; lead by 6010B in past lead paint storage areas; and Refuse area includes CAM 17 Metals by 6010B, mercury by 7471A, volatile organics by 8260B, and TPH-d/TPH-mo by 8015M.
9. Scan and send field forms to sara.bostick@atcgs.com

Attachments

Budget _____ | Workplan _____ | Map X | Chain-of Custody X

Other: Site Photographic Log | Well ConstructDiagram _____

Project Manager Information

Work Requested By: Gabe Stivala | Project Manager: Gabe Stivala

Date needed: 6/4/2018 | Time Needed: _____ | Hours Budgeted: _____

Field Completion Data

Was the scope of work completed? ____ Y ____ N | Completed by: GM

If "No", describe work completed. | Date Completed 05308-060118

Flowmeter: _____ Gals

Time: _____ hrs

Oxidizer: _____ hrs

Time: _____ hrs

Comments:
S-13 through S-24 were not ~~to~~ accessable
& S-31 + S-32

LEGEND

● PROPOSED SOIL BORING

0 200 400

APPROX. SCALE, FT

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

S:\Projects-BST\DAVID POVERS\114160009 ROSELAND CREEK\BORE\MAP.dwg

PROPOSED SAMPLING LOCATION MAP

ROSELAND CREEK COMMUNITY PARK PROPERTY
SANTA ROSA, CA

PROJECT NUMBER:	114160009	DATE:	5/16/18
APPROVED BY:	GS	DRAWN BY:	BK

FIGURE 2

ATC
915 Highland Point Dr., Ste. 250
Roseville, California 95678
Ph: (916) 924-5247 *** Fax: (916) 724-5201

BORING_COORDS_053018.txt

	LAT	LONG	
OK	S-1.	38.424430	-122.734676
	S-2.	38.424550	-122.734199
OK	S-3.	38.424673	-122.733689
OK	S-4.	38.424791	-122.733205
	S-5.	38.424943	-122.732672
	S-6.	38.425044	-122.732147
OK	S-7.	38.424097	-122.734597
OK	S-8.	38.424213	-122.734124
OK	S-9.	38.424328	-122.733643
OK	S-10.	38.424450	-122.733163
OK	S-11.	38.424575	-122.732654
OK	S-12.	38.424686	-122.732122
	S-13.	38.423719	-122.734586
	S-14.	38.423832	-122.734078
	S-15.	38.423965	-122.733611
	S-16.	38.424064	-122.733125
	S-17.	38.424207	-122.732606
	S-18.	38.424338	-122.732069
	S-19.	38.423357	-122.734553
	S-20.	38.423457	-122.734043
	S-21.	38.423595	-122.733565
	S-22.	38.423703	-122.733072
	S-23.	38.423825	-122.732541
	S-24.	38.423960	-122.732024
	S-25.	38.423017	-122.734476
	S-26.	38.423102	-122.734086
	S-27.	38.423274	-122.733439
	S-28.	38.423387	-122.733051
OK	S-29.	38.423475	-122.732509
OK	S-30.	38.423611	-122.731989
	S-31.	38.422726	-122.734442
	S-32.	38.422797	-122.733964
OK	S-33.	38.422871	-122.733484
OK	S-34.	38.422972	-122.732994
OK	S-35.	38.423112	-122.732474
	S-36.	38.423236	-122.731929
→	S-37.	38.422291	-122.734396
OK	S-38.	38.422393	-122.733892
OK	S-39.	38.422506	-122.733427
OK	S-40.	38.422627	-122.732938
OK	S-41.	38.422752	-122.732416
OK	S-42.	38.422873	-122.731872
	S-43.	38.42248	-122.73377
	S-44.	38.42258	-122.73347

38.42446 / 122.73412

38.42491 / 122.73282

38.42511 / 122.73214

~~38.42511 / 122.73214~~

38.42304 | 122.73439

38.42313 | 122.73403

38.42327 122.73350

~~42.338~~ 38.42338 / 122.73311

38.42318 / 122.73215

38.4229 / 122.73434

ATC	Field Report	FLD-100
		Revision 0.0
		Jul-08

ATC Branch: **54-Modesto**	Date: 053018	Page 1 of
ATC Representative(s): GM	Project: **Roseland Creek Community Park**	
Role: Technician	Location:1372 Burbank , **CA**	
Contact Information: SB	Project No: **1141800009**	Task No: **54001**
Scope of Work:	Weather: Sun	Temperature:
___ Monitoring _X_ Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
1021	Onsite. Check in w/resident @ 1372, Debbie, inform of
	Sampling for next 3 days. Told that 1400 Burbank has
	locked gate. Visual confirmation + request city open gate to
	GS.
1055	PG+E onsite meeting. Clear areas nearby houses for
	& underground utilities.
1114	PG+E offsite.
	Scout out all 3 properties, 1400, 1370/1372, + 1027 McMinn.
1305	S-43, set up. & Sampled @ 0.5-1ft. lead+pesticides
1320	S-44 sampled @ 0.5-1ft. lead+pesticides
1415	S-25 sampled @ 0.5-1ft. lead+pesticides
1440	S-26 sampled @ 0.5-1ft. lead+pesticides
1505	S-6 sampled @ 0.5-1ft. Arsenic + lead w/pesticides
	Scout out 1027 McMinn property - S-9, S-10, S-11 area dense
	w/poison ivy.
1630	Offsite.

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	**Unit Inspection: Pass / Fail**	
meter type: YSI PRO	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	
						Screen / Casing:	
Pre / Post						Commets:	

Calibration Solution Expiration Date:	Cable Unit Serial No.:
	Handheld Unit Serial No.:
Copies To:	Project Manager:
	Reviewed By:

Field Report

FLD-100
Revision 0.0
Jul-08

ATC Branch: **54-Modesto**	Date: 053118	Page 1 of 1
ATC Representative(s): GM	Project: **Roseland Creek Community Park**	
Role: Technician	Location:1372 Burbank , **CA**	
Contact Information: SB	Project No: **1141800009**	Task No: **54001**
Scope of Work:	Weather: Sun	Temperature:
___ Monitoring _X_ Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
0945	Onsite. Check in w/Tenant, Debbie.
1108	S-27 sampled 0.5-1 ft.
1121	S-28 sampled @ 0.5-1 ft.
1142	S-29 sampled @ 0.5-1 ft
1156	S-30 sampled @ 0.5-1 ft
1225	Call City for access to 1400 Burbank Ave.
1317	S-37 sampled @ 0.5-1 ft.
1333	S-38 sampled @ 0.5-1 ft.
1403	S-39 sampled @ 0.5-1 ft.
1426	S-40 sampled @ 0.5-1 ft.
1450	S-41 sampled @ 0.5-1 ft.
1510	S-42 sampled @ 0.5-1 ft.
1550	S-36 sampled @ 0.5-1 ft
1605	S-35 sampled @ 0.5-1 ft.
1625	S-34 sampled @ 0.5-1 ft
1650	S-33 sampled @ 0.5-1 ft
	Lock up. ~~Eat~~ Notify city contact.
1720	Left site

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	Unit Inspection: Pass / Fail	
meter type: YSI PRO	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	
						Screen / Casing:	
Pre / Post						Commets:	

Calibration Solution Expiration Date:	Cable Unit Serial No.:
	Handheld Unit Serial No.:
Copies To:	Project Manager:
	Reviewed By:

ATC	Field Report	FLD-100
		Revision 0.0
		Jul-08

ATC Branch: **54-Modesto**	Date: 060118	Page 1 of 2
ATC Representative(s): CM	Project: **Roseland Creek Community Park**	
Role: Technician	Location:1372 Burbank , **CA**	
Contact Information: SB	Project No: **1141800009**	Task No: **54001**
Scope of Work:	Weather: Sun	Temperature:
___ Monitoring _X_ Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
0800	Onsite. Begin on 1027 McMinn side of park
0815	Neighbor of 1027 McMinn, discuss history of park, city, + neighborhood debates for area.
0931	S-5 sampled @ 0.5-1 ft.
1000	S-4 sampled @ 0.5-1 ft.
1013	S-3 sampled @ 0.5-1 ft.
1034	S-2 sampled @ 0.5-1 ft.
1100	S-1 sampled @ 0.5-1 ft.
1156	S-7 sampled @ 0.5-1 ft
1222	S-8 sampled @ 0.5-1 ft
1240	S-9 sampled @ 0.5-1 ft
1415	S-10 sampled @ 0.5-1 ft.
1436	S-11 sampled @ 0.5-1 ft.
1508	S-12 sampled @ 0.5-1 ft.
1523	Contact GS about poison ivy throughout S-13-S-24 area. Weed abatement severly needed. Approved to not sample points S-13 through S-24, and S-31, S-32 due to vegitation overgrowth + poision ivy mix. ~~Offs~~

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	Unit Inspection: Pass / Fail	
meter type: YSI PRO	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	
						Screen / Casing:	
Pre / Post						Commets:	

Calibration Solution Expiration Date:	Cable Unit Serial No.:
	Handheld Unit Serial No.:
Copies To:	Project Manager:
	Reviewed By:

ATC	Field Report	FLD-100
		Revision 0.0
		Jul-08

ATC Branch: **54-Modesto**	Date: 060118	Page 2 of 2
ATC Representative(s): GM	Project: **Roseland Creek Community Park**	
Role: Technician	Location:1372 Burbank , **CA**	
Contact Information: SB	Project No: **1141800009**	Task No: **54001**
Scope of Work:	Weather: Sun	Temperature:
___ Monitoring _X_ Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
@1546	Contact city rep, Dean, notify work done, Possibility of returning to access S-13 through S-24, S-31 + S-32 if poision ivy/weed abatement completed.
1600	Offsite.

Calibration of:	Dissolved Oxygen	pH	pH	Cond.	ORP	**Unit Inspection: Pass / Fail**	
meter type: YSI PRO	(%)	(7.00)	(4.00)	(1.413) (mS/cm)	(220) (mV)	Battery levels:	
						Screen / Casing:	
Pre / Post						Commets:	

Calibration Solution Expiration Date:	Cable Unit Serial No.:
	Handheld Unit Serial No.:
Copies To:	Project Manager:
	Reviewed By:

ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTING

1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351
Main Line: (209) 579-2221
Facsimile: (209) 579-2225

CHAIN-OF-CUSTODY FORM

Project Name: Roseland Creek Community Park
Client: David J. Powers & Associates
Project Number: 1141800009 Task: 54001 Global ID: N / A
Project Address: 1372 Burbank Ave., Santa Rosa, CA
Laboratory: BC Labororatories, Inc
Contact: Molly Myers
Lab Address/Phone: 4100 Atlas Ct, Bakersfield, CA 93308
ATC Project Manager: Gabe Stivala
ATC PM Ph. No.: 925-223-7123
Email: gabe.stivala@atcgs.com
ATC Sampler: Genelle Martin
Email: sara.bostick@atcgs.com

Turnaround Time: (working days)
__ 10 day __ 7 day __ 5 day
__ 3 day __ 2 day __ 24 hr
__ 2-8 hr _X_ STANDARD (____)

ATC Sample ID	Sample Information: Date	Time	Matrix: Soil	Water	Vapor	Container Information: No.	Type	Preservative (HCL/HNO3 H2SO4)	Preserved			Field ID	Analyses Requested: Organochlorine Pesticides by EPA 8081A	As by EPA 6010B	Pb by EPA 6010B	CAM 17 Metals by EPA6010B	Hg by EPA 7471A	Volatile Organics by EPA 8260B	TPH-d / TPH-mo by EPA 8015M	Notes/Comment
S-1	6/1/2018	11:00	X			1	16 Oz Jars	None					X	X						
S-2	6/1/2018	10:34												X						
S-3	6/1/2018	10:13												X						
S-4	6/1/2018	10:00												X						
S-5	6/1/2018	9:31												X						
S-6	5/30/2018	15:05													X					
S-7	6/1/2018	11:56												X						
S-8	6/1/2018	12:22												X						
S-9	6/1/2018	12:40												X						
S-10	6/1/2018	14:15												X						
S-11	6/1/2018	14:36												X						
S-12	6/1/2018	15:08												X						
S-25	5/30/2018	14:15													X					
S-26	5/30/2018	14:40													X					
S-27	5/31/2018	11:08													X					
S-28	5/31/2018	11:21												X						
S-29	5/31/2018	11:42												X						

Additional Comments:

X EDF FORMAT

Relinquished By: Genelle Martin Date/Time: 6/7/18 15:50 Received By: Date/Time: 6/7/18 15:50
Relinquished By: Date/Time: Received By: Date/Time:
Relinquished By: Date/Time: Received By: Date/Time:

Sample Condition. Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ____ Transportation Method:

White - Lab
L:/Admin/Subsurface Group/SRF Roseland; revised 05/08/01

Yellow - Lab

Pink - ATC

ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTING

1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351
Main Line: (209) 579-2221
Facsimile: (209) 579-2225

CHAIN-OF-CUSTODY FORM

Project Name: Roseland Creek Community Park
Client: David J. Powers & Associates
Project Number: 1141800009 Task: 54001 Global ID: N / A
Project Address: 1372 Burbank Ave., Santa Rosa, CA
Laboratory: BC Labororatories, Inc
Contact: Molly Myers
Lab Address/Phone: 4100 Atlas Ct, Bakersfield, CA 93308
ATC Project Manager: Gabe Stivala
ATC PM Ph. No.: 925-223-7123
Email: gabe.stivala@atcgs.com
ATC Sampler: Genelle Martin
Email: sara.bostick@atcgs.com

Turnaround Time: (working days)
__ 10 day __ 7 day __ 5 day
__ 3 day __ 2 day __ 24 hr
__ 2-8 hr _X_ STANDARD (____)

ATC Sample ID	Sample Information: Date	Time	Matrix: Soil	Water	Vapor	Container Information: No.	Type	Preservative (HCL/HNO3 H2SO4)	Preserved			Field ID	Analyses Requested: Organochlorine Pesticides by EPA 8081A	As by EPA 6010B	Pb by EPA 6010B	CAM 17 Metals by EPA6010B	Hg by EPA 7471A	Volatile Organics by EPA 8260B	TPH-d / TPH-mo by EPA 8015M	Notes/Comment
S-30	5/31/2018	11:56	X			1	16 Oz Jars	None					X	X						
S-33	5/31/2018	16:50												X						
S-34	5/31/2018	16:25												X						
S-35	5/31/2018	16:05												X						
S-36	5/31/2018	15:50												X						
S-37	5/31/2018	13:17												X						
S-38	5/31/2018	13:33												X						
S-39	5/31/2018	14:03												X						
S-40	5/31/2018	14:26												X						
S-41	5/31/2018	14:50												X						
S-42	5/31/2018	15:10												X						
S-43	5/30/2018	13:05													X					
S-44	5/30/2018	13:20													X					

Additional Comments:

X EDF FORMAT

Relinquished By: [signature] Date/Time: 6/7/18 15:50 Received By: [signature] Date/Time: 6/7/18 15:50
Relinquished By: Date/Time: Received By: Date/Time:
Relinquished By: Date/Time: Received By: Date/Time:

Sample Condition. Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ____ Transportation Method:

White - Lab
L:/Admin/Subsurface Group/SRF Roseland; revised 05/08/01

Yellow - Lab

Pink - ATC

Attachment B

Laboratory Analytical Report

Date of Report: 07/19/2018

Gabe Stivala

ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Client Project:	1141800009
BCL Project:	Roseland Creek Community Park
BCL Work Order:	1818064
Invoice ID:	B307844, B310277

Enclosed are the results of analyses for samples received by the laboratory on 6/7/2018. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1000762016

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Stuart Buttram
Technical Director

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Total Concentrations (TTLC) 26

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Organochlorine Pesticides (EPA Method 8081A) 29
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Total Concentrations (TTLC) 32

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Chain of Custody and Cooler Receipt Form for 1818064 Page 1 of 5

CHAIN-OF-CUSTODY FORM

ATC ENVIRONMENTAL - GEOTECHNICAL BUILDING SCIENCES - MATERIALS TESTING
1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351
Main Line: (209) 579-2221
Facsimile: (209) 579-2225

Project Name: Roseland Creek Community Park Client: David J. Powers & Associates
Project Number: 1141800009 Task: 54001 Global ID: N/A
Project Address: 1372 Burbank Ave., Santa Rosa, CA
Laboratory: BC Laboratories, Inc Contact: Molly Myers
Lab Address/Phone: 4100 Atlas Ct. Bakersfield, CA 93308
ATC Project Manager: Gabe Stivala
ATC PM Ph. No.: 925-223-7123 Email: gabe.stivala@atcips.com
ATC Sampler: Genelle Martin Email: sara.hostick@atcips.com

18-18064

Turnaround Time: (working days) — 10 day — 7 day — 5 day — 3 day — 2 day — 24 hr — 2-8 hr — X STANDARD ( )

ATC Sample ID	Date	Time	Sample Information: Soil	Matrix: Water	Matrix: Vapor	Container Information: No.	Container Information: Type	Container Information: Preservative (HCL/HNO3 H2SO4)	Preserved	Field ID	Organochlorine Pesticides by EPA 8081A	As by EPA 6010B	Pb by EPA 6010B	CAM 17 Metals by EPA6010B	Hg by EPA 7471A	Volatile Organics by EPA 8260B	TPH-d / TPH-mo by EPA 8015M	Notes/Comment
S-1 -1	6/1/2018	11:00	X			1	16 Oz Jars	None			X	X						
S-2 -2	6/1/2018	10:34										X						
S-3 -3	6/1/2018	10:13										X						
S-4 -4	6/1/2018	10:00										X						
S-5 -5	6/1/2018	9:31										X						
S-6 -6	5/30/2018	15:05											X					
S-7 -7	6/1/2018	11:56										X						
S-8 -8	6/1/2018	12:22										X						
S-9 -9	6/1/2018	12:40										X						
S-10 -10	6/1/2018	14:15										X						
S-11 -11	6/1/2018	14:36										X						
S-12 -12	6/1/2018	15:08										X						
S-25 -13	5/30/2018	14:15											X					
S-26 -14	5/30/2018	14:40											X					
S-27 -15	5/31/2018	11:08											X					
S-28 -16	5/31/2018	11:21										X						
S-29 -17	5/31/2018	11:42										X						

CHK BY
DISTRIBUTION
SUB-OUT

Additional Comments:

X EDF FORMAT

Relinquished By: [signature] Date/Time: 6/7/18 15:30 Received By: [signature] Date/Time: 6/7/18 15:50
Relinquished By: [signature] Date/Time: 6/7/18 2130 Received By: [signature] Date/Time: 6/7/18 2130
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Sample Condition Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ____ Transportation Method: _____

Page 1 of 2

White - Lab
Yellow - Lab
Pink - ATC

Chain of Custody and Cooler Receipt Form for 1818064 Page 2 of 5

ATC ENVIRONMENTAL - GEOTECHNICAL BUILDING SCIENCES - MATERIALS TESTING
1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351
Main Line: (209) 579-2221
Facsimile: (209) 579-2225

CHAIN-OF-CUSTODY FORM

Project Name: Roseland Creek Community Park Client: David J. Powers & Associates
Project Number: 1141800009 Task: 54001 Global ID: N/A
Project Address: 1372 Burbank Ave., Santa Rosa, CA
Laboratory: BC Laboratories, Inc Contact: Molly Myers
Lab Address/Phone: 4100 Atlas Ct. Bakersfield, CA 93308
ATC Project Manager: Gabe Stivala
ATC PM Ph. No.: 925-223-7123 Email: gabe.stivala@atcgs.com
ATC Sampler: Genelle Martin Email: sara.bostick@atcgs.com

Turnaround Time: (working days) — 10 day — 7 day — 5 day — 3 day — 2 day — 24 hr — 2-8 hr — X STANDARD ( )

18-180664

ATC Sample ID	Date	Time	Matrix: Soil	Matrix: Water	Matrix: Vapor	Container Information: No.	Container Information: Type	Container Information: Preservative (HCl,HNO3, H2SO4)	Preserved	Field ID	Organochlorine Pesticides by EPA 8081A	As by EPA 6010B	Pb by EPA 6010B	CAM 17 Metals by EPA6010B	Hg by EPA 7471A	Volatile Organics by EPA 8260B	TPH-d / TPH-mo by EPA 8015M	Notes/Comment
S-30	5/31/2018	11:55	X			1	16 Oz Jars	None			X	X						
S-33	5/31/2018	16:50										X						
S-34	5/31/2018	16:25										X						
S-35	5/31/2018	16:05										X						
S-36	5/31/2018	15:50										X						
S-37	5/31/2018	13:17										X						
S-38	5/31/2018	13:33										X						
S-39	5/31/2018	14:03										X						
S-40	5/31/2018	14:26										X						
S-41	5/31/2018	14:50										X						
S-42	5/31/2018	15:10										X						
S-43	5/30/2018	13:05											X					
S-44	5/30/2018	13:20											X					

Additional Comments:

X EDF FORMAT

Relinquished By:	Date/Time: 6/7/18 15:50	Received By:	Date/Time: 6/7/18 15:50
Relinquished By:	Date/Time: 6/7/18 2130	Received By:	Date/Time: 6/7/18 2130
Relinquished By:	Date/Time:	Received By:	Date/Time:

Sample Condition: Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ___ Transportation Method ___

Page 2 of 2

White - Lab
Yellow - Lab
Pink - ATC

Chain of Custody and Cooler Receipt Form for 1818064 Page 3 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 3

Submission #: 18-18064

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / (S)

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ (Intact? Yes/No/NA) Containers ☐ (Intact? Yes/No/NA) None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: DDC16 Thermometer ID: 208 Date/Time 6/7/18 2130

Temperature: (A) 8.9 °C / (C) 0.3 °C Analyst Init VE

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{6+}										
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										
P1A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: Date/Time: 6/7 2220

A = Actual / C = Corrected

Rev 21 05/23/2016

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Chain of Custody and Cooler Receipt Form for 1818064 Page 4 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 3

Submission #: 18-18064

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / (S)

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Containers ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: DOM Thermometer ID: 208 Date/Time 10/7/18 2130

Temperature: (A) 0.6 °C / (C) 0.3 °C Analyst Init VR

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr6										
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 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: Date/Time: 10/7 2220

A = Actual / C = Corrected

Rev 21 05/23/2016

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Chain of Custody and Cooler Receipt Form for 1818064 Page 5 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 3

Submission #: 18-18064

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ W / (S)

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Containers ☐ None ☑ Comments:
(Intact? Yes ☐ No ☐) (Intact? Yes ☐ No ☐)

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: UOEG Thermometer ID: 208 Date/Time 6/7/18 2130

Temperature: (A) 0.5c °C / (C) 0.3 °C Analyst Init VR

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	3-10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr+6										
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 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: Date/Time: 6/7 2220

A = Actual / C = Corrected

Rev 21 05/23/2016

S:\IWPDocs\WardParlocs\LAB_DOCS\FORMS\SAMREC.rev 20

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-01	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 11:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-1	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-1
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-02	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 10:34
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-2	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-2
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-03	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 10:13
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-3	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-3
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-04	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 10:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-4	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-4
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-05	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 09:31
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-5	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-5
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-06	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/30/2018 15:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-6	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-6
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-07	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 11:56
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-7	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-7
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-08	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 12:22
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-8	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-8
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-09	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 06/01/2018 12:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-9	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-9
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1818064-10	**COC Number:**	---	**Receive Date:**	06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:**	06/01/2018 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-10	**Lab Matrix:**	Solids
	Sampled By:	ATCE	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	S-10
			Matrix:	SO
			Sample QC Type (SACode):	CS
			Cooler ID:	
1818064-11	**COC Number:**	---	**Receive Date:**	06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:**	06/01/2018 14:36
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-11	**Lab Matrix:**	Solids
	Sampled By:	ATCE	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	S-11
			Matrix:	SO
			Sample QC Type (SACode):	CS
			Cooler ID:	
1818064-12	**COC Number:**	---	**Receive Date:**	06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:**	06/01/2018 15:08
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-12	**Lab Matrix:**	Solids
	Sampled By:	ATCE	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	S-12
			Matrix:	SO
			Sample QC Type (SACode):	CS
			Cooler ID:	

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-13	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/30/2018 14:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-25	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-25
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-14	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/30/2018 14:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-26	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-26
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-15	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 11:08
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-27	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-27
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-16	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 11:21
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-28	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-28
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-17	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 11:42
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-29	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-29
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-18	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 11:56
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-30	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-30
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1818064-19	**COC Number:**	---	**Receive Date:**	06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:**	05/31/2018 16:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-33	**Lab Matrix:**	Solids
	Sampled By:	ATCE	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	S-33
			Matrix:	SO
			Sample QC Type (SACode):	CS
			Cooler ID:	
1818064-20	**COC Number:**	---	**Receive Date:**	06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:**	05/31/2018 16:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-34	**Lab Matrix:**	Solids
	Sampled By:	ATCE	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	S-34
			Matrix:	SO
			Sample QC Type (SACode):	CS
			Cooler ID:	
1818064-21	**COC Number:**	---	**Receive Date:**	06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:**	05/31/2018 16:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-35	**Lab Matrix:**	Solids
	Sampled By:	ATCE	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	S-35
			Matrix:	SO
			Sample QC Type (SACode):	CS
			Cooler ID:	

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-22	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 15:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-36	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-36
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-23	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 13:17
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-37	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-37
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-24	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 13:33
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-38	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-38
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-25	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 14:03
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-39	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-39
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-26	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 14:26
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-40	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-40
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-27	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 14:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-41	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-41
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1818064-28	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/31/2018 15:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-42	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-42
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-29	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/30/2018 13:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-43	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-43
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1818064-30	**COC Number:**	---	**Receive Date:** 06/07/2018 21:30
	Project Number:	Roseland Creek	**Sampling Date:** 05/30/2018 13:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-44	**Lab Matrix:** Solids
	Sampled By:	ATCE	**Sample Type:** Soil
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): S-44
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-01 | **Client Sample Name:** Roseland Creek, S-1, 6/1/2018 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.96		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0096		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.96		EPA-8081A	ND	A10	1
TCMX (Surrogate)	64.3	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	67.1	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:07	HKS	GC-17	19.108	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-01 | **Client Sample Name:** Roseland Creek, S-1, 6/1/2018 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.2**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/22/18 14:27	JCC	PE-OP3	1	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-02 | **Client Sample Name:** Roseland Creek, S-2, 6/1/2018 10:34:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.0015**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.0069**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDT	**0.0066**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	39.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	43.4	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:21	HKS	GC-17	0.993	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-02 | **Client Sample Name:** Roseland Creek, S-2, 6/1/2018 10:34:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.3**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:42	JCC	PE-OP3	1.980	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-03 | **Client Sample Name:** Roseland Creek, S-3, 6/1/2018 10:13:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.00075**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.0028**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDT	**0.0025**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	39.5	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	39.3	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:36	HKS	GC-17	0.987	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-03 | **Client Sample Name:** Roseland Creek, S-3, 6/1/2018 10:13:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.3**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:44	JCC	PE-OP3	1.980	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-04 | **Client Sample Name:** Roseland Creek, S-4, 6/1/2018 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.00077**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.0023**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDT	**0.0022**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	51.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	50.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 09:51	HKS	GC-17	1.017	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-04 | **Client Sample Name:** Roseland Creek, S-4, 6/1/2018 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.1**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:46	JCC	PE-OP3	1.961	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-05 | **Client Sample Name:** Roseland Creek, S-5, 6/1/2018 9:31:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.0039**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.015**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
4,4'-DDT	**0.013**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	0	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	34.2	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	40.4	%	40 - 130 (LCL - UCL)		EPA-8081A		A01	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 10:05	HKS	GC-17	0.990	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 15:41	HKS	GC-17	4.950	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-05 | **Client Sample Name:** Roseland Creek, S-5, 6/1/2018 9:31:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.2**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:15	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-06 | **Client Sample Name:** Roseland Creek, S-6, 5/30/2018 3:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	**0.061**	**mg/kg**	**0.050**		**EPA-8081A**	ND		1
4,4'-DDD	**0.0038**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.0098**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
4,4'-DDT	**0.0062**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	40.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	40.2	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 10:20	HKS	GC-17	1.010	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 15:56	HKS	GC-17	5.051	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-06 | **Client Sample Name:** Roseland Creek, S-6, 5/30/2018 3:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**5.5**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1
Lead	**44**	**mg/kg**	**2.5**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/22/18 14:54	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-07 | **Client Sample Name:** Roseland Creek, S-7, 6/1/2018 11:56:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	34.9	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	39.0	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 11:18	HKS	GC-17	9.967	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-07 | **Client Sample Name:** Roseland Creek, S-7, 6/1/2018 11:56:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.4**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/22/18 14:56	JCC	PE-OP3	1	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-08 | **Client Sample Name:** Roseland Creek, S-8, 6/1/2018 12:22:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.0019**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.0078**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDT	**0.0076**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	38.2	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	40.4	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 11:33	HKS	GC-17	1.014	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-08 | **Client Sample Name:** Roseland Creek, S-8, 6/1/2018 12:22:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.8**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:47	JCC	PE-OP3	1.980	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-09 | **Client Sample Name:** Roseland Creek, S-9, 6/1/2018 12:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.0028**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.014**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
4,4'-DDT	**0.010**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
Dieldrin	**0.00078**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	43.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	55.9	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 11:47	HKS	GC-17	1.017	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 16:25	HKS	GC-17	5.085	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-09 | **Client Sample Name:** Roseland Creek, S-9, 6/1/2018 12:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.7**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:17	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-10 | **Client Sample Name:** Roseland Creek, S-10, 6/1/2018 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.0031**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.012**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
4,4'-DDT	**0.010**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	46.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.8	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:02	HKS	GC-17	1.010	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 16:40	HKS	GC-17	5.051	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-10 | **Client Sample Name:** Roseland Creek, S-10, 6/1/2018 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.4**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:19	JCC	PE-OP3	1	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-11 | **Client Sample Name:** Roseland Creek, S-11, 6/1/2018 2:36:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.0033**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.011**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
4,4'-DDT	**0.011**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A01**	2
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	51.1	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.4	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:16	HKS	GC-17	0.984	B016524
2	EPA-8081A	06/11/18 08:30	06/12/18 17:53	HKS	GC-17	4.918	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-11 | **Client Sample Name:** Roseland Creek, S-11, 6/1/2018 2:36:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.9**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:20	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-12 | **Client Sample Name:** Roseland Creek, S-12, 6/1/2018 3:08:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDT	**0.0058**	**mg/kg**	**0.0050**		**EPA-8081A**	ND	**A10**	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	41.9	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	43.9	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:31	HKS	GC-17	9.934	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-12 | **Client Sample Name:** Roseland Creek, S-12, 6/1/2018 3:08:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.2**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:49	JCC	PE-OP3	2	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-13 | **Client Sample Name:** Roseland Creek, S-25, 5/30/2018 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	**0.0056**	**mg/kg**	**0.0050**		**EPA-8081A**	ND	**A10**	1
4,4'-DDE	**0.0063**	**mg/kg**	**0.0050**		**EPA-8081A**	ND	**A10**	1
4,4'-DDT	**0.011**	**mg/kg**	**0.0050**		**EPA-8081A**	ND	**A10**	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	56.6	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	60.4	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 12:46	HKS	GC-17	9.868	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-13 | **Client Sample Name:** Roseland Creek, S-25, 5/30/2018 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.7**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1
Lead	**34**	**mg/kg**	**2.5**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:27	JCC	PE-OP3	0.971	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-14 | **Client Sample Name:** Roseland Creek, S-26, 5/30/2018 2:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.98		EPA-8081A	ND	A10	1
4,4'-DDD	**0.016**	**mg/kg**	**0.0098**		**EPA-8081A**	ND	**A10**	1
4,4'-DDE	**0.020**	**mg/kg**	**0.0098**		**EPA-8081A**	ND	**A10**	1
4,4'-DDT	**0.047**	**mg/kg**	**0.0098**		**EPA-8081A**	ND	**A10**	1
Dieldrin	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0098		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.98		EPA-8081A	ND	A10	1
TCMX (Surrogate)	44.5	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	64.6	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 13:00	HKS	GC-17	19.608	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-14 | **Client Sample Name:** Roseland Creek, S-26, 5/30/2018 2:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.5**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1
Lead	**120**	**mg/kg**	**2.5**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:28	JCC	PE-OP3	0.980	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-15 | **Client Sample Name:** Roseland Creek, S-27, 5/31/2018 11:08:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	**0.0099**	**mg/kg**	**0.0050**		**EPA-8081A**	ND	**A10**	1
4,4'-DDE	**0.021**	**mg/kg**	**0.0050**		**EPA-8081A**	ND	**A10**	1
4,4'-DDT	**0.025**	**mg/kg**	**0.0050**		**EPA-8081A**	ND	**A10**	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	145	%	20 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1
Decachlorobiphenyl (Surrogate)	78.4	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 13:15	HKS	GC-17	9.901	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-15 | **Client Sample Name:** Roseland Creek, S-27, 5/31/2018 11:08:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.3**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1
Lead	**36**	**mg/kg**	**2.5**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:30	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-16 | **Client Sample Name:** Roseland Creek, S-28, 5/31/2018 11:21:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
4,4'-DDD	**0.011**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDE	**0.021**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDT	**0.014**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
Dieldrin	**0.0032**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	58.3	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	58.1	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 13:29	HKS	GC-17	5.068	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-16 | **Client Sample Name:** Roseland Creek, S-28, 5/31/2018 11:21:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**2.7**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:31	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-17 | **Client Sample Name:** Roseland Creek, S-29, 5/31/2018 11:42:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	**0.00054**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDT	**0.00094**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	40.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 14:28	HKS	GC-17	1.017	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-17 | **Client Sample Name:** Roseland Creek, S-29, 5/31/2018 11:42:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**2.9**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:33	JCC	PE-OP3	1	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-18 | **Client Sample Name:** Roseland Creek, S-30, 5/31/2018 11:56:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
4,4'-DDD	**0.0058**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDE	**0.0054**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDT	**0.017**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
Dieldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	63.7	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	53.3	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 14:43	HKS	GC-17	5.017	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-18 | **Client Sample Name:** Roseland Creek, S-30, 5/31/2018 11:56:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.2**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:34	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-19 | **Client Sample Name:** Roseland Creek, S-33, 5/31/2018 4:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	**0.00093**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDE	**0.00057**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDT	**0.0053**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	**0.00058**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	51.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	49.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 14:58	HKS	GC-17	1.003	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-19 | **Client Sample Name:** Roseland Creek, S-33, 5/31/2018 4:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**2.8**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:36	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-20 | **Client Sample Name:** Roseland Creek, S-34, 5/31/2018 4:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	**0.00075**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	46.8	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	56.1	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 08:30	06/12/18 15:12	HKS	GC-17	0.987	B016524

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-20 | **Client Sample Name:** Roseland Creek, S-34, 5/31/2018 4:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**2.7**	**mg/kg**	**1.0**		**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 08:30	06/25/18 12:37	JCC	PE-OP3	0.990	B016238

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-21 | **Client Sample Name:** Roseland Creek, S-35, 5/31/2018 4:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	**0.00074**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	31.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	47.0	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/13/18 16:02	HKS	GC-17	1.007	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-21 | **Client Sample Name:** Roseland Creek, S-35, 5/31/2018 4:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.1**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:14	KDF	PE-OP3	2	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-22 | **Client Sample Name:** Roseland Creek, S-36, 5/31/2018 3:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	**0.00071**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
4,4'-DDT	**0.0013**	**mg/kg**	**0.00050**		**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	62.1	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	52.5	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 19:35	HKS	GC-17	1.017	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-22 | **Client Sample Name:** Roseland Creek, S-36, 5/31/2018 3:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**5.2**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:49	KDF	PE-OP3	1.980	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-23 | **Client Sample Name:** Roseland Creek, S-37, 5/31/2018 1:17:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	45.7	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.1	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 19:49	HKS	GC-17	0.990	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-23 | **Client Sample Name:** Roseland Creek, S-37, 5/31/2018 1:17:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**2.6**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:51	KDF	PE-OP3	1.980	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-24 | **Client Sample Name:** Roseland Creek, S-38, 5/31/2018 1:33:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	37.9	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	42.1	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 20:04	HKS	GC-17	0.990	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-24 | **Client Sample Name:** Roseland Creek, S-38, 5/31/2018 1:33:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.2**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:53	KDF	PE-OP3	1.942	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-25 | **Client Sample Name:** Roseland Creek, S-39, 5/31/2018 2:03:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	36.3	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	39.7	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 21:17	HKS	GC-17	9.901	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-25 | **Client Sample Name:** Roseland Creek, S-39, 5/31/2018 2:03:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.0**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:54	KDF	PE-OP3	1.980	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-26 | **Client Sample Name:** Roseland Creek, S-40, 5/31/2018 2:26:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0050		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.50		EPA-8081A	ND	A10	1
TCMX (Surrogate)	75.2	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	82.8	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 21:32	HKS	GC-17	10.101	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-26 | **Client Sample Name:** Roseland Creek, S-40, 5/31/2018 2:26:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.0**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:56	KDF	PE-OP3	1.980	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-27 | **Client Sample Name:** Roseland Creek, S-41, 5/31/2018 2:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	50.0	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	46.9	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 21:46	HKS	GC-17	1.010	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-27 | **Client Sample Name:** Roseland Creek, S-41, 5/31/2018 2:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.2**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/21/18 23:58	KDF	PE-OP3	1.980	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-28 | **Client Sample Name:** Roseland Creek, S-42, 5/31/2018 3:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050		EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050		EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050		EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050		EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050		EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050		EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050		EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050		EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050		EPA-8081A	ND		1
TCMX (Surrogate)	60.9	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	58.8	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 22:01	HKS	GC-17	1.003	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-28 | **Client Sample Name:** Roseland Creek, S-42, 5/31/2018 3:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.8**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/22/18 00:00	KDF	PE-OP3	1.961	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-29 | **Client Sample Name:** Roseland Creek, S-43, 5/30/2018 1:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
4,4'-DDD	**0.020**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDE	**0.018**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDT	**0.048**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
Dieldrin	**0.0065**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	20.7	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	25.5	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 22:15	HKS	GC-17	5.034	B016531

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915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-29 | **Client Sample Name:** Roseland Creek, S-43, 5/30/2018 1:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**4.1**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1
Lead	**29**	**mg/kg**	**5.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/22/18 00:08	KDF	PE-OP3	1.961	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 1818064-30 | **Client Sample Name:** Roseland Creek, S-44, 5/30/2018 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
4,4'-DDD	**0.011**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDE	**0.0037**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
4,4'-DDT	**0.023**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
Dieldrin	**0.013**	**mg/kg**	**0.0025**		**EPA-8081A**	ND	**A10**	1
Endosulfan I	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025		EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25		EPA-8081A	ND	A10	1
TCMX (Surrogate)	50.5	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	38.7	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081A	06/11/18 09:40	06/12/18 22:30	HKS	GC-17	4.983	B016531

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

BCL Sample ID: 1818064-30 | **Client Sample Name:** Roseland Creek, S-44, 5/30/2018 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	**3.0**	**mg/kg**	**2.0**		**EPA-6010B**	ND	**A07**	1
Lead	**110**	**mg/kg**	**5.0**		**EPA-6010B**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/11/18 10:36	06/22/18 00:06	KDF	PE-OP3	1.980	B016239

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B016524						
Aldrin	B016524-BLK1	ND	mg/kg	0.00050		
alpha-BHC	B016524-BLK1	ND	mg/kg	0.00050		
beta-BHC	B016524-BLK1	ND	mg/kg	0.00050		
delta-BHC	B016524-BLK1	ND	mg/kg	0.00050		
gamma-BHC (Lindane)	B016524-BLK1	ND	mg/kg	0.00050		
Chlordane (Technical)	B016524-BLK1	ND	mg/kg	0.050		
4,4'-DDD	B016524-BLK1	ND	mg/kg	0.00050		
4,4'-DDE	B016524-BLK1	ND	mg/kg	0.00050		
4,4'-DDT	B016524-BLK1	ND	mg/kg	0.00050		
Dieldrin	B016524-BLK1	ND	mg/kg	0.00050		
Endosulfan I	B016524-BLK1	ND	mg/kg	0.00050		
Endosulfan II	B016524-BLK1	ND	mg/kg	0.00050		
Endosulfan sulfate	B016524-BLK1	ND	mg/kg	0.00050		
Endrin	B016524-BLK1	ND	mg/kg	0.00050		
Endrin aldehyde	B016524-BLK1	ND	mg/kg	0.00050		
Heptachlor	B016524-BLK1	ND	mg/kg	0.00050		
Heptachlor epoxide	B016524-BLK1	ND	mg/kg	0.00050		
Methoxychlor	B016524-BLK1	ND	mg/kg	0.00050		
Toxaphene	B016524-BLK1	ND	mg/kg	0.050		
TCMX (Surrogate)	**B016524-BLK1**	**85.3**	%	**20 - 130 (LCL - UCL)**		
Decachlorobiphenyl (Surrogate)	**B016524-BLK1**	**88.0**	%	**40 - 130 (LCL - UCL)**		
QC Batch ID: B016531						
Aldrin	B016531-BLK1	ND	mg/kg	0.00050		
alpha-BHC	B016531-BLK1	ND	mg/kg	0.00050		
beta-BHC	B016531-BLK1	ND	mg/kg	0.00050		
delta-BHC	B016531-BLK1	ND	mg/kg	0.00050		
gamma-BHC (Lindane)	B016531-BLK1	ND	mg/kg	0.00050		
Chlordane (Technical)	B016531-BLK1	ND	mg/kg	0.050		
4,4'-DDD	B016531-BLK1	ND	mg/kg	0.00050		
4,4'-DDE	B016531-BLK1	ND	mg/kg	0.00050		
4,4'-DDT	B016531-BLK1	ND	mg/kg	0.00050		
Dieldrin	B016531-BLK1	ND	mg/kg	0.00050		
Endosulfan I	B016531-BLK1	ND	mg/kg	0.00050		

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B016531						
Endosulfan II	B016531-BLK1	ND	mg/kg	0.00050		
Endosulfan sulfate	B016531-BLK1	ND	mg/kg	0.00050		
Endrin	B016531-BLK1	ND	mg/kg	0.00050		
Endrin aldehyde	B016531-BLK1	ND	mg/kg	0.00050		
Heptachlor	B016531-BLK1	ND	mg/kg	0.00050		
Heptachlor epoxide	B016531-BLK1	ND	mg/kg	0.00050		
Methoxychlor	B016531-BLK1	ND	mg/kg	0.00050		
Toxaphene	B016531-BLK1	ND	mg/kg	0.050		
TCMX (Surrogate)	**B016531-BLK1**	**64.0**	%	**20 - 130 (LCL - UCL)**		
Decachlorobiphenyl (Surrogate)	**B016531-BLK1**	**97.5**	%	**40 - 130 (LCL - UCL)**		

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B016524										
Aldrin	B016524-BS1	LCS	0.0042842	0.0050336	mg/kg	85.1		70 - 130		
gamma-BHC (Lindane)	B016524-BS1	LCS	0.0042034	0.0050336	mg/kg	83.5		60 - 140		
4,4'-DDT	B016524-BS1	LCS	0.0042980	0.0050336	mg/kg	85.4		60 - 140		
Dieldrin	B016524-BS1	LCS	0.0040728	0.0050336	mg/kg	80.9		70 - 130		
Endrin	B016524-BS1	LCS	0.0041054	0.0050336	mg/kg	81.6		60 - 140		
Heptachlor	B016524-BS1	LCS	0.0040745	0.0050336	mg/kg	80.9		60 - 140		
TCMX (Surrogate)	B016524-BS1	LCS	0.0069228	0.010067	mg/kg	68.8		20 - 130		
Decachlorobiphenyl (Surrogate)	B016524-BS1	LCS	0.012693	0.020134	mg/kg	63.0		40 - 130		
QC Batch ID: B016531										
Aldrin	B016531-BS1	LCS	0.0043541	0.0050676	mg/kg	85.9		70 - 130		
gamma-BHC (Lindane)	B016531-BS1	LCS	0.0050760	0.0050676	mg/kg	100		60 - 140		
4,4'-DDT	B016531-BS1	LCS	0.0070740	0.0050676	mg/kg	140		60 - 140		
Dieldrin	B016531-BS1	LCS	0.0048818	0.0050676	mg/kg	96.3		70 - 130		
Endrin	B016531-BS1	LCS	0.0070010	0.0050676	mg/kg	138		60 - 140		
Heptachlor	B016531-BS1	LCS	0.0046341	0.0050676	mg/kg	91.4		60 - 140		
TCMX (Surrogate)	B016531-BS1	LCS	0.0062693	0.010135	mg/kg	61.9		20 - 130		
Decachlorobiphenyl (Surrogate)	B016531-BS1	LCS	0.018648	0.020270	mg/kg	92.0		40 - 130		

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ATC Group Services
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B016524	Used client sample: Y - Description: S-2, 06/01/2018 10:34										
Aldrin	MS	1818064-02	ND	0.0036804	0.0050676	mg/kg		72.6		50 - 140	
	MSD	1818064-02	ND	0.0035254	0.0049505	mg/kg	4.3	71.2	30	50 - 140	
gamma-BHC (Lindane)	MS	1818064-02	ND	0.0046986	0.0050676	mg/kg		92.7		50 - 140	
	MSD	1818064-02	ND	0.0046208	0.0049505	mg/kg	1.7	93.3	30	50 - 140	
4,4'-DDT	MS	**1818064-02**	**0.0066391**	**0.016227**	**0.0050676**	**mg/kg**		**189**		**50 - 140**	**Q03**
	MSD	**1818064-02**	**0.0066391**	**0.015910**	**0.0049505**	**mg/kg**	**2.0**	**187**	**30**	**50 - 140**	**Q03**
Dieldrin	MS	1818064-02	0.000081788	0.0043280	0.0050676	mg/kg		83.8		40 - 140	
	MSD	1818064-02	0.000081788	0.0041680	0.0049505	mg/kg	3.8	82.5	30	40 - 140	
Endrin	MS	1818064-02	ND	0.0065459	0.0050676	mg/kg		129		50 - 150	
	MSD	1818064-02	ND	0.0063700	0.0049505	mg/kg	2.7	129	30	50 - 150	
Heptachlor	MS	1818064-02	ND	0.0046544	0.0050676	mg/kg		91.8		60 - 140	
	MSD	1818064-02	ND	0.0044465	0.0049505	mg/kg	4.6	89.8	30	60 - 140	
TCMX (Surrogate)	MS	1818064-02	ND	0.0077645	0.010135	mg/kg		76.6		20 - 130	
	MSD	1818064-02	ND	0.0076429	0.0099010	mg/kg	1.6	77.2		20 - 130	
Decachlorobiphenyl (Surrogate)	MS	1818064-02	ND	0.012899	0.020270	mg/kg		63.6		40 - 130	
	MSD	1818064-02	ND	0.012273	0.019802	mg/kg	5.0	62.0		40 - 130	
QC Batch ID: B016531	Used client sample: Y - Description: S-35, 05/31/2018 16:05										
Aldrin	MS	1818064-21	ND	0.0031680	0.0050000	mg/kg		63.4		50 - 140	
	MSD	1818064-21	ND	0.0031862	0.0049180	mg/kg	0.6	64.8	30	50 - 140	
gamma-BHC (Lindane)	MS	1818064-21	ND	0.0037787	0.0050000	mg/kg		75.6		50 - 140	
	MSD	1818064-21	ND	0.0038757	0.0049180	mg/kg	2.5	78.8	30	50 - 140	
4,4'-DDT	MS	1818064-21	0.00073624	0.0063567	0.0050000	mg/kg		112		50 - 140	
	MSD	1818064-21	0.00073624	0.0062882	0.0049180	mg/kg	1.1	113	30	50 - 140	
Dieldrin	MS	1818064-21	0.00015369	0.0031707	0.0050000	mg/kg		60.3		40 - 140	
	MSD	1818064-21	0.00015369	0.0032193	0.0049180	mg/kg	1.5	62.3	30	40 - 140	
Endrin	MS	1818064-21	ND	0.0053370	0.0050000	mg/kg		107		50 - 150	
	MSD	1818064-21	ND	0.0053256	0.0049180	mg/kg	0.2	108	30	50 - 150	
Heptachlor	MS	1818064-21	ND	0.0041057	0.0050000	mg/kg		82.1		60 - 140	
	MSD	1818064-21	ND	0.0040859	0.0049180	mg/kg	0.5	83.1	30	60 - 140	
TCMX (Surrogate)	MS	1818064-21	ND	0.0049950	0.010000	mg/kg		50.0		20 - 130	
	MSD	1818064-21	ND	0.0050574	0.0098361	mg/kg	1.2	51.4		20 - 130	
Decachlorobiphenyl (Surrogate)	MS	1818064-21	ND	0.014237	0.020000	mg/kg		71.2		40 - 130	
	MSD	1818064-21	ND	0.011604	0.019672	mg/kg	20.4	59.0		40 - 130	

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915 Highland Pointe Drive, Suite 250
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Reported: 07/19/2018 9:45
Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B016238						
Arsenic	B016238-BLK1	ND	mg/kg	1.0		
Lead	B016238-BLK1	ND	mg/kg	2.5		
QC Batch ID: B016239						
Arsenic	B016239-BLK1	ND	mg/kg	1.0		
Lead	B016239-BLK1	ND	mg/kg	2.5		

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Project Number: 1141800009
Project Manager: Gabe Stivala

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B016238										
Arsenic	B016238-BS1	LCS	10.106	10.000	mg/kg	101		75 - 125		
Lead	B016238-BS1	LCS	109.96	100.00	mg/kg	110		75 - 125		
QC Batch ID: B016239										
Arsenic	B016239-BS1	LCS	9.6023	10.000	mg/kg	96.0		75 - 125		
Lead	B016239-BS1	LCS	102.46	100.00	mg/kg	102		75 - 125		

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Project: Roseland Creek Community Park
Project Number: 1141800009
Project Manager: Gabe Stivala

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	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B016238	Used client sample: Y - Description: S-1, 06/01/2018 11:00										
Arsenic	DUP	**1818064-01**	**3.2242**	**5.6348**		**mg/kg**	**54.4**		**20**		**Q01**
	MS	**1818064-01**	**3.2242**	**11.829**	**10.000**	**mg/kg**		**86.0**		**75 - 125**	
	MSD	**1818064-01**	**3.2242**	**12.026**	**10.000**	**mg/kg**	**1.6**	**88.0**	**20**	**75 - 125**	
Lead	DUP	1818064-01	14.805	13.979		mg/kg	5.7		20		
	MS	1818064-01	14.805	101.02	100.00	mg/kg		86.2		75 - 125	
	MSD	1818064-01	14.805	97.775	100.00	mg/kg	3.3	83.0	20	75 - 125	
QC Batch ID: B016239	Used client sample: Y - Description: S-35, 05/31/2018 16:05										
Arsenic	DUP	**1818064-21**	**4.0655**	**3.7165**		**mg/kg**	**9.0**		**20**		
	MS	**1818064-21**	**4.0655**	**11.422**	**10.000**	**mg/kg**		**73.6**		**75 - 125**	**Q03**
	MSD	**1818064-21**	**4.0655**	**11.198**	**10.000**	**mg/kg**	**2.0**	**71.3**	**20**	**75 - 125**	**Q03**
Lead	DUP	1818064-21	10.247	9.2817		mg/kg	9.9		20		
	MS	1818064-21	10.247	98.002	100.00	mg/kg		87.8		75 - 125	
	MSD	1818064-21	10.247	98.063	100.00	mg/kg	0.1	87.8	20	75 - 125	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
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.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

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