



Metals Assessment – Phase I Report
Storm Water Management Plan
Carnegie State Vehicular Recreation Area

Off-Highway Motor Vehicle Recreation Division
Department of Parks and Recreation
State of California

JULY 2015

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BACKGROUND

STUDY JUSTIFICATION

The Cleanup and Abatement Order (CAO) (Order No. R5-2012-0700) issued to Carnegie State Vehicular Recreation Area (SVRA) required the development of a metals assessment plan. The CAO identifies several possible sources of metals within Carnegie SVRA and adjacent properties. The subsequent update of the Carnegie SVRA Storm Water Management Plan (SWMP) defined a study plan to determine the possible impacts of metals pollution resulting from park activities and surrounding land uses.

The concern with metals is due to their potential to cause acute and chronic toxic effects on aquatic life and the potential to bioaccumulate in aquatic organisms. Potential sources of metals have been identified as fuels, adhesives, paints and other coatings, buildings, infrastructure, a nearby firearms ranges, an adjacent explosives testing facility, and the abandoned Tesla Mine. Additionally, metals such as copper, chromium, and zinc, have been selected as pollutants of concern since they are prevalent in vehicle components and can be deposited in the watershed through typical vehicle wear and leaks.

Additionally, possible negative water quality effects from chloride levels resulting from the application of magnesium chloride (used as a dust suppressant) were evaluated.

To address these concerns the following overall goals of the metal assessment were identified:

- Determine if constituents of concern are present in Corral Hollow Creek.
- If present, determine if constituent levels exceed water quality objectives.
- If water quality objectives are exceeded, determine if the nonpoint source(s) of those constituents can be attributed to activities within the SVRA.
- If sources are determined to be within the SVRA, develop BMPs to reduce the pollutants to the maximum extent practicable

ASSESSMENT PLAN

The overall strategy to investigate the goals was to employ a study plan with an iterative approach made up of two phases. Phase I was designed to be broad; focusing on the first two objectives of determining constituent presence as well as deepening the understanding of water quality within the SVRA and adjacent properties to give context to the third objective. Phase II, if needed, would build upon the context gained in Phase I to conduct more directed source tracking studies to determine contributing factors. The net result of this assessment would be a data set and understanding of the impacts resulting from the SVRA activities and contributions from adjacent properties. This information would inform the final goal of deploying BMPs to mitigate any identified constituents to an acceptable level, if needed.

Previous water quality sampling conducted in 2005-06 (OHMVRD, 2007) showed metal concentrations were in compliance the California Toxics Rule (CTR) criteria, with the exception of one sample for copper. The 2005-2006 sampling plan was expanded upon with this metals assessment. The number of sample sites was increased from six to 16 locations for Phase I of this assessment. Sample locations were selected to either determine water quality entering and

exiting the park or to try to isolate possible sources of metal contamination. These targeted sites included stations designed to provide background data on the watershed, contributions that may be coming from the abandoned mine, traffic from the county road, OHV recreational areas, and the explosive testing facilities. Thus, sample sites were located inside and outside the SVRA property. Sample site locations are shown in **Figure 1**. The rationale for each of these sites are listed below and summarized in **Table 1**:

- M1 was selected to characterize background conditions. Land use in this area is primarily cattle grazing.
- M2 was selected to describe any changes that may have occurred as a result of the Tesla Mining District.
- M3 is located at the drainage point of Bakers Ravine which is a fairly large watershed with known uses that include various mining activity, the county road, grazing and at least one residence.
- M4, M5, and M6 are included to reflect possible contributions from the county road as well as residences.
- M7 is the point where Corral Hollow Creek runs onto the SVRA and therefore provides the background level needed to make assessments and comparisons.
- M8-M11, M13, M14 are included to isolate OHV trail use and the pollutant control effectiveness of the sediment basins (M9, M11, and M14).
- M12 is aimed at determining the background rate of run-on within the Kiln canyon and will be used to further describe any effect that OHV trail activity may have on this watershed. The watershed upstream of the SVRA contains the Stanford Research Institute.
- M15 will provide data on drainage from Site 300 and the county road.
- M16 is the discharge point of Corral Hollow Creek off of the SVRA property.



Figure 1. Phase I metal assessment sample locations.

Sample Station	Dependent Variables						
	Grazing	Tesla Mine Site	County Road	Site 300	Residences	OHV, Trail Use	SRI
M1	X						
M2	X	X					
M3	X	X	X		X		
M4	X	X	X		X		
M5	X	X	X		X		
M6	X	X	X		X		
M7	X	X	X	X	X		
M8	X					X	
M9	X					X	
M10	X					X	
M11	X					X	
M12	X					X	X
M13	X					X	X
M14	X					X	X
M15			X	X			
M16	X	X	X	X	X	X	X

Table 1. Identified land uses contained in drainage area of for each Phase I sample location.

Samples were scheduled to be collected during four qualifying events beginning in the 2012-13 winter season following the return of seasonal flows to Corral Hollow Creek. Qualifying events were defined by events creating runoff at all sample collection sites and preceded by 72 hours of dry weather. At each study location a single grab sample was collected and analyzed for Aluminum, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Zinc, and Chloride.

WATER QUALITY STANDARDS

Due to the relatively infrequent flow of the Corral Hollow Creek there are no specific regulatory requirements attached to the creek. A review of possible regulations that could be tied to the creek flows found three potential sets of standards which cover some or all of these metals. The first set of standards are the limits identified in the Water Quality Control Plan (Basin Plan) for the Sacramento and San Joaquin River basins, which are the potential receiving waters of the creek. The second set of standards are the California Toxics Rule (CTR) which establishes numeric criteria for priority toxic pollutants for the state of California. The final set of standards are the Water Quality-Based Assessment Thresholds for fresh water aquatic life derived using the assessment threshold algorithms in the water quality goals staff report (http://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_goals_text.pdf). **Table 2** outlines the limits for each of the parameters contained in this assessment where applicable.

	Basin Plan	CTR	Fresh Water Aquatic Life - Assessment
Aluminum	N/A	N/A	0.087
Cadmium	0.00022	0.0043	0.0011
Chromium	N/A	N/A	N/A
Copper	0.0056	0.013	0.0041
Iron	0.3	N/A	1
Lead	N/A	0.065	0.00092
Mercury	N/A	N/A	0.00077
Zinc	0.16	0.12	0.054
Chloride	N/A	N/A	230

Table 2. Water quality standards potentially applying to Corral Hollow Creek. CTR are based on standard limits based off a hardness of 100 mg/l. FWAL limits are based on the fresh water aquatic life criteria.

DATA REPORT

SAMPLE EVENTS

Due to the prolonged drought in California only two qualifying storm events have been sampled to date. The dates of the sampling events are December 12th and December 17th of 2014. A six day period of antecedent dry conditions existed prior to the December 12th event. The December 12th event had a total of 2.68" of precipitation over a period of 48 hours. The December 17th event was preceded by a three day period of antecedent dry conditions and resulted in 1.36" of precipitation over a period of 72 hours. It is not known if flows from Corral Hollow Creek discharged to any downstream receiving waters during these events.

As a result of the limited runoff events, Regional Board staff suggested sampling sediment at the study sites to determine if sediments are posing a potential significant source of dissolved metals into storm water flowing over them. Sediment samples were collected on February 26, 2015 and analyzed for the same parameters as the water quality portion of the assessment.

CHEMICAL DATA

Stormwater

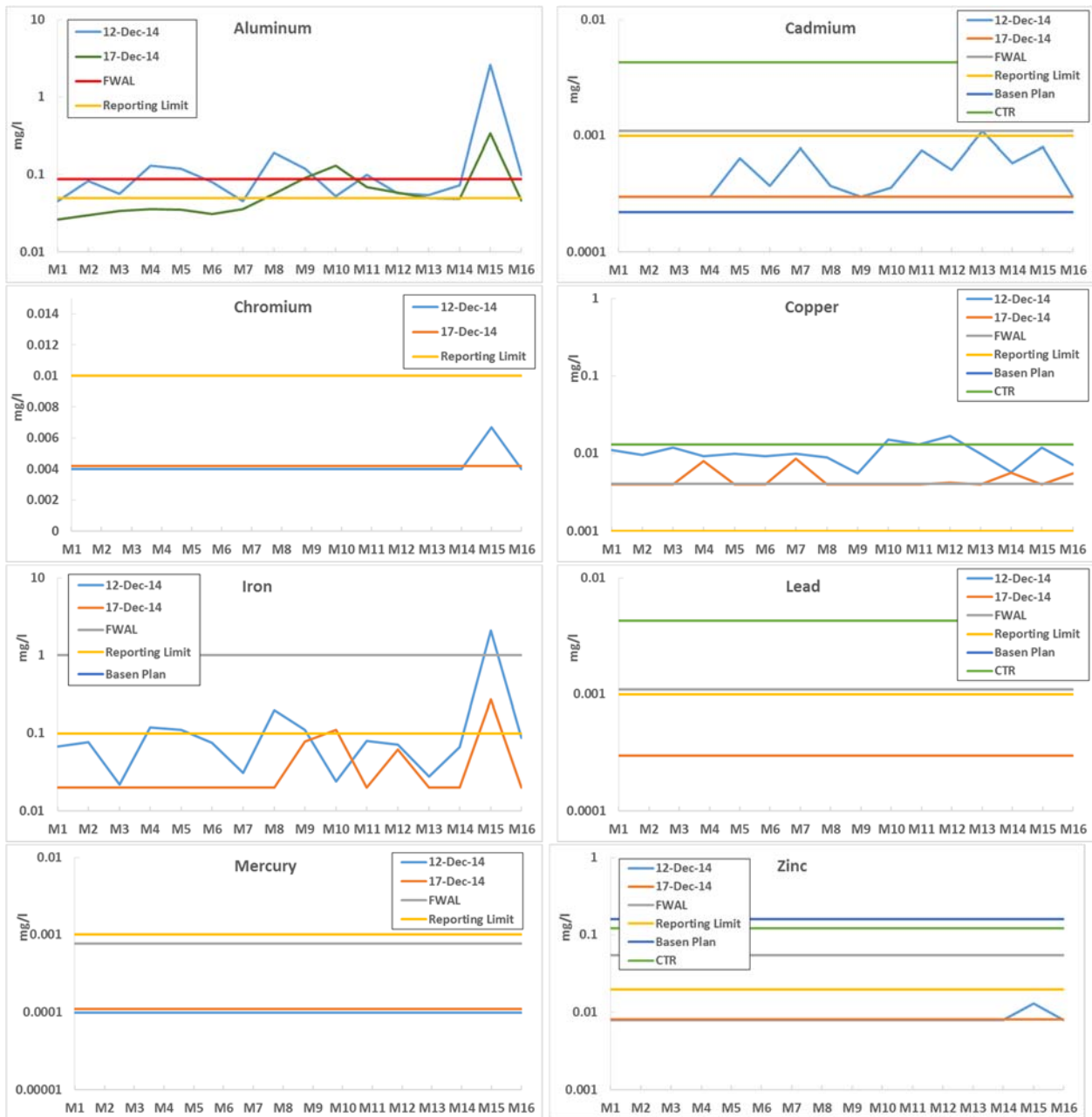
Water quality data collected during the December 12, 2014 and December 17, 2014 sample events are shown in **Table 3**. The Reporting Limit and the Method Detection Limit for the chemical analysis for these samples are shown in **Table 4**. All samples were filtered prior to analysis and results reflect dissolved concentrations. Metals were measured using EPA Method 200.7 ICP-MS with an acidic digest with the exception of Mercury which was analyzed using EPA Method 245.1. Chloride was measured using EPA Method 300.0. The metal data is also shown in **Figures 2a through 2h** and chloride in **Figure 3** as a function of sample site. These figures also overlay any water quality standards which apply to the individual metals.

		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
12/12/2014	Aluminum	0.045	0.082	0.056	0.13	0.12	0.08	0.045	0.19	0.12	0.052	0.1	0.057	0.054	0.073	2.6	0.1
	Cadmium	ND	ND	ND	ND	0.00064	0.00037	0.00078	0.00037	ND	0.00036	0.00075	0.00051	0.0011	0.00058	0.0008	ND
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067	ND
	Copper	0.011	0.0096	0.012	0.0093	0.01	0.0092	0.01	0.0089	0.0055	0.015	0.013	0.017	0.01	0.0058	0.012	0.0071
	Iron	0.068	0.077	0.022	0.12	0.11	0.076	0.031	0.2	0.11	0.024	0.08	0.072	0.028	0.066	2.1	0.087
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND
	Chloride	34	44	380	53	55	63	48	11	5.1	47	36	49	220	66	23	14
12/17/2014	Aluminum	0.026	0.03	0.034	0.036	0.035	0.031	0.036	0.056	0.091	0.13	0.069	0.058	0.05	0.049	0.34	0.046
	Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	ND	ND	ND	0.008	ND	ND	0.0086	ND	ND	ND	ND	0.0042	ND	0.0057	ND	0.0055
	Iron	ND	ND	ND	ND	ND	ND	ND	ND	0.078	0.11	ND	0.062	ND	ND	0.27	0.02
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Zinc	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloride	38	41	43	42	43	85	35	34	5.1	81	71	31	220	160	5.4	34

Table 3. Results for water quality analysis of wet weather samples. ND = non-detect below laboratory method specific MDL. All results in mg/l.

	Reporting Limit (mg /l)	Minimum Detection Limit (mg /l)
Aluminum	0.05	0.02
Cadmium	0.01	0.0003
Chromium	0.01	0.004
Copper	0.02	0.004
Iron	0.1	0.02
Lead	0.05	0.05
Mercury	0.001	0.0001
Zinc	0.02	0.008
Chloride	0.6	5

Table 4. Laboratory method specific Reporting Limit and Method Detection Limit. All results in mg/l.



Figures 2a - 2h. Graphs showing the metal results of the wet weather samples water quality results and water quality standards. ND results are shown as at the MDL concentration.

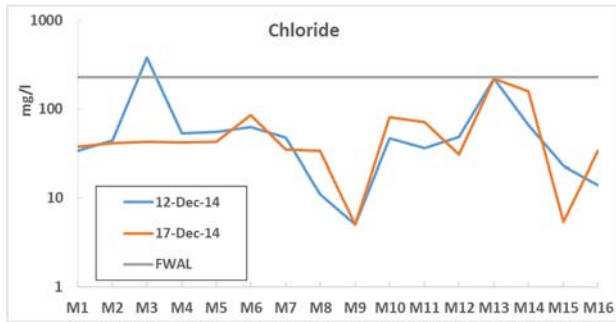


Figure 3. Graphs showing the chloride results of the wet weather samples water quality results and water quality standards.

Sediment

Soil samples were collected on February 26, 2015 and analyzed for the same metals as the water quality analysis. Sediments were acid digested via EPA Method 3051; a microwave assisted soil digestion. Results are shown in **Table 5** along with the associated Reporting Limit and Method Detection Limit. There are no sediment standards associated with these metals and this analysis reflects a total metal content of samples due to the aggressive sample digestion treatment.

	Aluminum	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Zinc
M1	12000	0.2	23	23	16000	8.9	ND	51
M2	15000	0.13	20	9.4	14000	7.7	ND	37
M3	20000	0.09	38	20	21000	7.1	ND	47
M4	16000	ND	22	13	14000	4.3	ND	28
M5	16000	0.11	26	20	19000	7.2	ND	42
M6	39000	0.17	54	34	32000	11	0.03	76
M7	40000	0.18	56	36	34000	12	0.02	77
M8	14000	0.16	33	21	19000	6.9	ND	40
M9	23000	0.21	43	29	25000	8.7	ND	93
M10	15000	0.21	35	26	25000	8.8	0.085	49
M11	19000	0.21	32	20	19000	8.7	ND	50
M12	12000	ND	32	20	15000	5.2	ND	33
M13	19000	0.15	53	35	26000	8.7	0.32	49
M14	25000	0.17	59	35	24000	12	0.9	64
M15	31000	0.23	48	37	29000	20	0.065	1000
M16	33000	0.3	62	41	33000	13	0.05	83
RL	20	1	5	10	50	5	0.2	10
MDL	2	0.07	0.09	0.2	3	0.1	0.02	0.4

Table 5. Results, RL, and MDL from sediment analysis at the sixteen study sites.

DISCUSSION

WATER QUALITY COMPLIANCE

Metal concentrations in the samples collected during the wet weather sampling events were compared to the three water quality limits (**Table 6**). Chromium, Lead, Mercury, Zinc and Chloride all did not have a single exceedance. Iron only had one sample which exceeded any of the standards. Aluminum and Cadmium each had ten samples exceed one of the standards. Copper had the highest concentrations with up to 21 of the 32 samples exceeding the FWAL limit.

	Basin Plan	CTR	FWAL
Aluminum			10
Cadmium	10	0	0
Chromium			
Copper	18	2	21
Iron	1		1
Lead		0	0
Mercury			0
Zinc	0	0	0
Chloride		0	0

Table 6. Number of samples exceeding water quality samples out of the 32 total samples collected. Blacked out cells indicate no listed standard.

An examination of the metals with exceedance was conducted to determine potential patterns, sources, and hot spots for pollution inputs.

Aluminum is named in only one of the water quality standards; the FWAL. 10 of the 36 samples exceeded the 0.087 mg/l limit; however, seven of these samples are within the margin of error based on the Reporting Limit of the limit. Of the remaining three, two are at site M15 which targets drainage from Site 300 which is not part of the SVRA property. Additionally, waters exiting the park via Corral Hollow Creek are either in compliance or within the margin of error of the water quality standard and are within the margin of error of the concentration of the waters entering the park property.

Cadmium has limits listed in all three sets of standards. All samples were in compliance for the CTR and FWLA. The Basin Plan limit is an order of magnitude lower than the other limits. The Basin Plan limit is also less than Reporting Limit and Method Detection Limit of the method used for analysis. Thus a direct comparison to this standard has limitations and for this reason all measurable amounts that are higher than non-detect are not in compliance. However, similar to Aluminum, Cadmium does not present and indication that it poses a threat to cause or contribute to a receiving water contravention. The measurements in samples which exceed the most conservative Basin Plan limit are all attributed to the targeted sampling. In fact, runoff leaving the SVRA is lower concentration than runoff entering the SVRA in Corral Hollow Creek.

Copper is enriched though out the study area and exceeded all three water quality standards with at least one sample. This was true even for the background pasture sites and the runoff entering the SVRA in Corral Hollow Creek. While the runoff exiting the SVRA also exceeds the Basin Plan and FWAL limits, the

concentrations are actually lower than those entering the SVRA (most likely due to a dilution process). The elevated dissolved copper concentrations appear to be a result of background geological nature of the area, and are thus, not tied to SVRA activities.

Iron concentrations were generally low in all samples with the exception of the sample collected from site M15. This site is directed at collecting runoff from Site 300 which is not part of the SVRA. This single high sample is also associated with elevated Aluminum and Chromium which indicates this may be tied to crustal material and not directly to pollution.

SEDIMENT COMPLIANCE

Results from the sediment analysis are shown in **Figure 4**. The general trends in soil composition across sample locations is fairly constant. This homogeneity suggests that there are no sediment hotspots for any of the sample locations. This pattern is likely a result true geographic homogeneity of surface material or the homogenizing effect of the stream carrying material from various locations throughout the watershed. Additionally, these results are consistent with results expected from average crustal abundance analysis of soils using a microwave assisted digestion treatment. This fact further indicates that these sediments do not present any obvious alterations caused by park operations. It should be noted that these results should not be directly related to possible inputs to stormwater passing over the sediments as they do not reflect labile, bioavailable, or soluble fractions of the soil metal content. Rather these results reflect an inventory of the bulk sediment load of the study area subwatershed.

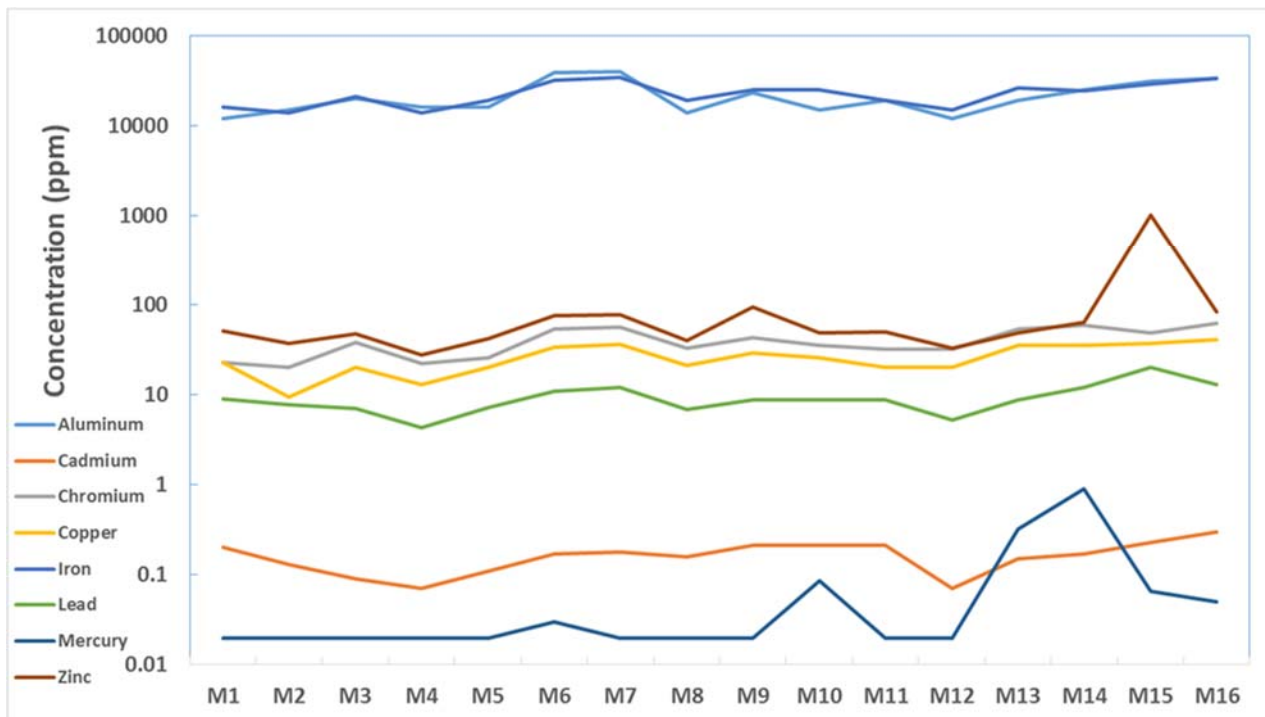


Figure 4. Trends in the sediment analysis across the sixteen study sites.

CONCLUSIONS

The purpose Phase I of this metals assessment study was to determine if there was evidence of pollution resulting from SVRA activities reaching receiving waters. This objective is tied to concerns that point source or non-point source SVRA derived pollution could potentially cause or contribute to water quality impairments. Sixteen samples sites were identified to target pass through waters and specific potential pollution source areas. Originally, four sampling events were targeted to be collected; however, due to the prolonged drought following the implementation of this study plan only two qualifying events were able to be sampled. As a result, supplemental stream bed sediment samples were collected to confirm that no hot spot sources of study metals existed. Sediment results reflected a fairly homogenous stream bed which closely resembles average crustal abundance concentrations of the metals examined.

Storm water samples showed that three of the eight metals analyzed resulted in no samples with either detectable concentrations in the samples or no samples exceeding any of the identified water quality standards applying to the watershed. The other five metals which have at least one contravention of one of the three standards show no specific pattern to indicate that the SVRA activities are causing or contributing to any water quality issues. In fact, several of the constituents show lower concentrations of dissolved metals exiting the SVRA than entering. This is likely a result of dilution of waters lower in dissolved metal concentration added to the creek within the SVRA area.

This same pattern is seen in the Chloride data which has lower concentrations on the downstream end of the pass through runoff. These lower chloride concentrations also show that the use of magnesium chloride as a dust suppressant is not detectably contributing to chloride concentrations in the watershed.

It should be further noted that the site of highest concern in this study is not associated with the SVRA. Site M15 show the highest dissolved concentration of metal and the highest number of exceedances. This site targeted street runoff and flows originating from Site 300, which includes a firing range directly across the street.

Overall the runoff leaving the SVRA through Corral Hollow Creek is either in compliance with all applicable water quality standards, comparable, or of better quality than runoff entering the SVRA via Corral Hollow Creek. For this reason there is no evidence or remaining questions that need to be addressed in a second phase of this metal assessment study.

Laboratory Reports



alpha

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ELAP Certificates 1551, 2728, and 2922

31 December 2014

Calif. Dept. of Parks & Rec. - Carnegie SVRA

Attn: Tara deSilva

15751 Tesla Road

Livermore, CA 94550

RE: Storm Water Monitoring

Work Order: 14L1460

Enclosed are the results of analyses for samples received by the laboratory on 12/16/14 22:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore

Project Manager



Alpha Analytical Laboratories Inc.

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Kiln In	14L1460-01	Water	12/12/14 11:15	12/16/14 22:35
Kiln Out	14L1460-02	Water	12/12/14 11:30	12/16/14 22:35
Kiln 3	14L1460-03	Water	12/12/14 11:50	12/16/14 22:35
CHC In	14L1460-04	Water	12/12/14 09:00	12/16/14 22:35
Tesla Boundary	14L1460-05	Water	12/12/14 07:30	12/16/14 22:35
T1	14L1460-06	Water	12/12/14 07:50	12/16/14 22:35
T2	14L1460-07	Water	12/12/14 07:58	12/16/14 22:35
Metals 3	14L1460-08	Water	12/12/14 08:10	12/16/14 22:35
Metals 4	14L1460-09	Water	12/12/14 08:20	12/16/14 22:35
Metals 5	14L1460-10	Water	12/12/14 08:35	12/16/14 22:35
Tyson's In	14L1460-11	Water	12/12/14 09:15	12/16/14 22:35
Tyson's Out	14L1460-12	Water	12/12/14 09:23	12/16/14 22:35
Carrol In	14L1460-13	Water	12/12/14 10:05	12/16/14 22:35
Carrol Out	14L1460-14	Water	12/12/14 10:15	12/16/14 22:35
Westend Road	14L1460-15	Water	12/12/14 14:00	12/16/14 22:35
CHC Out	14L1460-16	Water	12/12/14 10:35	12/16/14 22:35

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



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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Kiln In (14L1460-01) Water Sampled: 12/12/14 11:15 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.054	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 15:14	EPA 200.7	MAM	
Cadmium, dissolved	0.0011	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.010	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.028	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:27	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 15:14	EPA 200.7	MAM	U
Kiln Out (14L1460-02) Water Sampled: 12/12/14 11:30 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.073	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 15:22	EPA 200.7	MAM	
Cadmium, dissolved	0.00058	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0085	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.066	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:34	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 15:22	EPA 200.7	MAM	U
Kiln 3 (14L1460-03) Water Sampled: 12/12/14 11:50 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.057	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 15:36	EPA 200.7	MAM	
Cadmium, dissolved	0.00051	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.017	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.072	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:36	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 15:36	EPA 200.7	MAM	U

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
CHC In (14L1460-04) Water Sampled: 12/12/14 09:00 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.045	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 15:41	EPA 200.7	MAM	J
Cadmium, dissolved	0.00078	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.010	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.031	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:39	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 15:41	EPA 200.7	MAM	U
Tesla Boundary (14L1460-05) Water Sampled: 12/12/14 07:30 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.045	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 15:47	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.011	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.068	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:41	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 15:47	EPA 200.7	MAM	U
T1 (14L1460-06) Water Sampled: 12/12/14 07:50 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.082	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 15:52	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0096	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.077	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:43	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 15:52	EPA 200.7	MAM	U

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
T2 (14L1460-07) Water Sampled: 12/12/14 07:58 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.056	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 15:59	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.012	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.022	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:46	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 15:59	EPA 200.7	MAM	U
Metals 3 (14L1460-08) Water Sampled: 12/12/14 08:10 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.13	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:06	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0093	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.12	0.020	0.10	"	"	"	"	"	"	"	
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:48	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:06	EPA 200.7	MAM	U
Metals 4 (14L1460-09) Water Sampled: 12/12/14 08:20 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.12	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:14	EPA 200.7	MAM	
Cadmium, dissolved	0.00064	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.010	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.11	0.020	0.10	"	"	"	"	"	"	"	
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:50	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:14	EPA 200.7	MAM	U

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Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Metals 5 (14L1460-10) Water Sampled: 12/12/14 08:35 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.080	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:21	EPA 200.7	MAM	
Cadmium, dissolved	0.00037	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0092	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.076	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:53	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:21	EPA 200.7	MAM	U
Tyson's In (14L1460-11) Water Sampled: 12/12/14 09:15 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.19	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:28	EPA 200.7	MAM	
Cadmium, dissolved	0.00037	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0089	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.20	0.020	0.10	"	"	"	"	"	"	"	
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 11:55	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:28	EPA 200.7	MAM	U
Tyson's Out (14L1460-12) Water Sampled: 12/12/14 09:23 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.12	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:33	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0055	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.11	0.020	0.10	"	"	"	"	"	"	"	
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 12:05	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:33	EPA 200.7	MAM	U

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Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Carrol In (14L1460-13) Water Sampled: 12/12/14 10:05 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.052	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:48	EPA 200.7	MAM	
Cadmium, dissolved	0.00036	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.015	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.024	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 12:07	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:48	EPA 200.7	MAM	U
Carrol Out (14L1460-14) Water Sampled: 12/12/14 10:15 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	0.10	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:53	EPA 200.7	MAM	
Cadmium, dissolved	0.00075	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.013	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.080	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 12:10	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:53	EPA 200.7	MAM	U
Westend Road (14L1460-15) Water Sampled: 12/12/14 14:00 Received: 12/16/14 22:35 FILT											
Aluminum, dissolved	2.6	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 16:58	EPA 200.7	MAM	
Cadmium, dissolved	0.00080	0.00030	0.010	"	"	"	"	"	"	"	J
Chromium, dissolved	0.0067	0.0040	0.010	"	"	"	"	"	"	"	J
Copper, dissolved	0.012	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	2.1	0.020	0.10	"	"	"	"	"	"	"	
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 12:12	EPA 245.1	JJM	U
Zinc, dissolved	0.013	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 16:58	EPA 200.7	MAM	J

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Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
CHC Out (14L1460-16) Water											
Sampled: 12/12/14 10:35 Received: 12/16/14 22:35											
FILT											
Aluminum, dissolved	0.10	0.020	0.050	mg/L	1	AL42344	12/24/14 07:21	12/30/14 17:03	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0071	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.087	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AL42330	12/23/14 10:11	12/24/14 12:15	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AL42344	12/24/14 07:21	12/30/14 17:03	EPA 200.7	MAM	U

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15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Kiln In (14L1460-01) Water Sampled: 12/12/14 11:15 Received: 12/16/14 22:35											
Chloride	220	0.60	5.0	mg/L	10	AL42036	12/23/14 01:34	12/23/14 01:34	EPA 300.0	SMP	
Kiln Out (14L1460-02) Water Sampled: 12/12/14 11:30 Received: 12/16/14 22:35											
Chloride	66	0.30	2.5	mg/L	5	AL42036	12/20/14 14:58	12/20/14 14:58	EPA 300.0	SMP	
Kiln 3 (14L1460-03) Water Sampled: 12/12/14 11:50 Received: 12/16/14 22:35											
Chloride	49	0.30	2.5	mg/L	5	AL42036	12/20/14 15:13	12/20/14 15:13	EPA 300.0	SMP	
CHC In (14L1460-04) Water Sampled: 12/12/14 09:00 Received: 12/16/14 22:35											
Chloride	48	0.60	5.0	mg/L	10	AL42036	12/20/14 15:57	12/20/14 15:57	EPA 300.0	SMP	
Tesla Boundary (14L1460-05) Water Sampled: 12/12/14 07:30 Received: 12/16/14 22:35											
Chloride	34	0.30	2.5	mg/L	5	AL42036	12/20/14 16:11	12/20/14 16:11	EPA 300.0	SMP	
T1 (14L1460-06) Water Sampled: 12/12/14 07:50 Received: 12/16/14 22:35											
Chloride	44	0.60	5.0	mg/L	10	AL42036	12/20/14 16:26	12/20/14 16:26	EPA 300.0	SMP	
T2 (14L1460-07) Water Sampled: 12/12/14 07:58 Received: 12/16/14 22:35											
Chloride	380	3.0	25	mg/L	50	AL42036	12/20/14 16:40	12/20/14 16:40	EPA 300.0	SMP	
Metals 3 (14L1460-08) Water Sampled: 12/12/14 08:10 Received: 12/16/14 22:35											
Chloride	53	0.60	5.0	mg/L	10	AL42036	12/20/14 16:55	12/20/14 16:55	EPA 300.0	SMP	
Metals 4 (14L1460-09) Water Sampled: 12/12/14 08:20 Received: 12/16/14 22:35											
Chloride	55	0.60	5.0	mg/L	10	AL42036	12/20/14 17:10	12/20/14 17:10	EPA 300.0	SMP	

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Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Metals 5 (14L1460-10) Water Sampled: 12/12/14 08:35 Received: 12/16/14 22:35											
Chloride	63	0.60	5.0	mg/L	10	AL42036	12/20/14 17:24	12/20/14 17:24	EPA 300.0	SMP	
Tyson's In (14L1460-11) Water Sampled: 12/12/14 09:15 Received: 12/16/14 22:35											
Chloride	11	0.30	2.5	mg/L	5	AL42036	12/20/14 17:39	12/20/14 17:39	EPA 300.0	SMP	
Tyson's Out (14L1460-12) Water Sampled: 12/12/14 09:23 Received: 12/16/14 22:35											
Chloride	5.1	0.060	0.50	mg/L	1	AL42036	12/23/14 01:49	12/23/14 01:49	EPA 300.0	SMP	
Carrol In (14L1460-13) Water Sampled: 12/12/14 10:05 Received: 12/16/14 22:35											
Chloride	47	1.2	10	mg/L	20	AL42036	12/20/14 18:08	12/20/14 18:08	EPA 300.0	SMP	
Carrol Out (14L1460-14) Water Sampled: 12/12/14 10:15 Received: 12/16/14 22:35											
Chloride	36	1.2	10	mg/L	20	AL42036	12/20/14 18:52	12/20/14 18:52	EPA 300.0	SMP	
Westend Road (14L1460-15) Water Sampled: 12/12/14 14:00 Received: 12/16/14 22:35											
Chloride	23	0.30	2.5	mg/L	5	AL42036	12/20/14 19:06	12/20/14 19:06	EPA 300.0	SMP	
CHC Out (14L1460-16) Water Sampled: 12/12/14 10:35 Received: 12/16/14 22:35											
Chloride	14	0.30	2.5	mg/L	5	AL42036	12/20/14 19:21	12/20/14 19:21	EPA 300.0	SMP	

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AL42330 - EPA 245.1 Hg Water

Blank (AL42330-BLK1) Prepared: 12/23/14 Analyzed: 12/24/14

Mercury, dissolved	ND	0.00010	0.0010	mg/L							U
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LCS (AL42330-BS1) Prepared: 12/23/14 Analyzed: 12/24/14

Mercury, dissolved	0.00250	0.00010	0.0010	mg/L	0.00250		100	85-115			
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Duplicate (AL42330-DUP1) Source: 14L1689-01 Prepared: 12/23/14 Analyzed: 12/24/14

Mercury, dissolved	ND	0.00010	0.0010	mg/L		ND				20	U
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Matrix Spike (AL42330-MS1) Source: 14L1689-01 Prepared: 12/23/14 Analyzed: 12/24/14

Mercury, dissolved	0.00249	0.00010	0.0010	mg/L	0.00250	ND	99.6	70-130			
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Matrix Spike (AL42330-MS2) Source: 14L1689-03 Prepared: 12/23/14 Analyzed: 12/24/14

Mercury, dissolved	0.00238	0.00010	0.0010	mg/L	0.00250	ND	95.2	70-130			
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Matrix Spike Dup (AL42330-MSD1) Source: 14L1689-01 Prepared: 12/23/14 Analyzed: 12/24/14

Mercury, dissolved	0.00248	0.00010	0.0010	mg/L	0.00250	ND	99.2	70-130	0.402	20	
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Batch AL42344 - Metals Digest

Blank (AL42344-BLK1) Prepared: 12/23/14 Analyzed: 12/30/14

Aluminum, dissolved	ND	0.020	0.050	mg/L							U
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Cadmium, dissolved	0.00112	0.00030	0.010	"							J
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Chromium, dissolved	ND	0.0040	0.010	"							U
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Copper, dissolved	0.00866	0.0040	0.020	"							J
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Iron, dissolved	ND	0.020	0.10	"							U
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Lead, dissolved	ND	0.020	0.050	"							U
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Zinc, dissolved	0.0125	0.0080	0.020	"							J
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AL42344 - Metals Digest

LCS (AL42344-BS1)

Prepared: 12/23/14 Analyzed: 12/30/14

Aluminum, dissolved	2.14	0.020	0.050	mg/L	2.00		107	85-115			
Cadmium, dissolved	0.202	0.00030	0.010	"	0.200		101	85-115			
Chromium, dissolved	0.211	0.0040	0.010	"	0.200		106	85-115			
Copper, dissolved	0.232	0.0040	0.020	"	0.208		112	85-115			
Iron, dissolved	2.14	0.020	0.10	"	2.00		107	85-115			
Lead, dissolved	0.211	0.020	0.050	"	0.200		106	85-115			
Zinc, dissolved	0.210	0.0080	0.020	"	0.200		105	85-115			

Duplicate (AL42344-DUP1)

Source: 14L1713-02

Prepared: 12/23/14 Analyzed: 12/30/14

Aluminum, dissolved	0.0333	0.020	0.050	mg/L		0.0305			8.90	20	J
Cadmium, dissolved	0.00108	0.00030	0.010	"		0.000766			34.0	20	J
Chromium, dissolved	0.00757	0.0040	0.010	"		0.00681			10.6	20	J
Copper, dissolved	ND	0.0040	0.020	"		ND				20	U
Iron, dissolved	ND	0.020	0.10	"		ND				20	U
Lead, dissolved	ND	0.020	0.050	"		ND				20	U
Zinc, dissolved	ND	0.0080	0.020	"		ND				20	U

Matrix Spike (AL42344-MS1)

Source: 14L1713-02

Prepared: 12/23/14 Analyzed: 12/30/14

Aluminum, dissolved	2.22	0.020	0.050	mg/L	2.00	0.0305	109	70-130			
Cadmium, dissolved	0.207	0.00030	0.010	"	0.200	0.000766	103	70-130			
Chromium, dissolved	0.225	0.0040	0.010	"	0.200	0.00681	109	70-130			
Copper, dissolved	0.235	0.0040	0.020	"	0.208	ND	113	70-130			
Iron, dissolved	2.17	0.020	0.10	"	2.00	ND	109	70-130			
Lead, dissolved	0.220	0.020	0.050	"	0.200	ND	110	70-130			
Zinc, dissolved	0.214	0.0080	0.020	"	0.200	ND	107	70-130			

Matrix Spike (AL42344-MS2)

Source: 14L1713-04

Prepared: 12/23/14 Analyzed: 12/30/14

Aluminum, dissolved	2.08	0.020	0.050	mg/L	2.00	0.0218	103	70-130			
Cadmium, dissolved	0.194	0.00030	0.010	"	0.200	0.000949	96.7	70-130			
Chromium, dissolved	0.205	0.0040	0.010	"	0.200	0.00505	100	70-130			
Copper, dissolved	0.220	0.0040	0.020	"	0.208	ND	106	70-130			
Iron, dissolved	2.03	0.020	0.10	"	2.00	ND	101	70-130			

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AL42344 - Metals Digest

Matrix Spike (AL42344-MS2)

Source: 14L1713-04

Prepared: 12/23/14 Analyzed: 12/30/14

Lead, dissolved	0.206	0.020	0.050	mg/L	0.200	ND	103	70-130			
Zinc, dissolved	0.198	0.0080	0.020	"	0.200	ND	98.9	70-130			

Matrix Spike Dup (AL42344-MSD1)

Source: 14L1713-02

Prepared: 12/23/14 Analyzed: 12/30/14

Aluminum, dissolved	2.22	0.020	0.050	mg/L	2.00	0.0305	110	70-130	0.407	20	
Cadmium, dissolved	0.208	0.00030	0.010	"	0.200	0.000766	103	70-130	0.255	20	
Chromium, dissolved	0.224	0.0040	0.010	"	0.200	0.00681	108	70-130	0.329	20	
Copper, dissolved	0.234	0.0040	0.020	"	0.208	ND	113	70-130	0.333	20	
Iron, dissolved	2.17	0.020	0.10	"	2.00	ND	108	70-130	0.0452	20	
Lead, dissolved	0.219	0.020	0.050	"	0.200	ND	110	70-130	0.417	20	
Zinc, dissolved	0.210	0.0080	0.020	"	0.200	ND	105	70-130	1.44	20	

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AL42036 - General Preparation											
Blank (AL42036-BLK1) Prepared & Analyzed: 12/20/14											
Chloride	ND	0.060	0.50	mg/L							U
LCS (AL42036-BS1) Prepared & Analyzed: 12/20/14											
Chloride	10.5	0.060	0.50	mg/L	11.1		94.5	90-110			
Duplicate (AL42036-DUP1) Source: 14L1460-16 Prepared & Analyzed: 12/20/14											
Chloride	13.6	0.30	2.5	mg/L		13.9			2.23	20	
Matrix Spike (AL42036-MS1) Source: 14L1460-16 Prepared & Analyzed: 12/20/14											
Chloride	24.8	0.30	2.5	mg/L	11.1	13.9	98.1	80-120			
Matrix Spike (AL42036-MS2) Source: 14L1717-03 Prepared & Analyzed: 12/20/14											
Chloride	23.0	0.60	5.0	mg/L	11.1	12.9	91.1	80-120			
Matrix Spike Dup (AL42036-MSD1) Source: 14L1460-16 Prepared & Analyzed: 12/20/14											
Chloride	24.8	0.30	2.5	mg/L	11.1	13.9	98.9	80-120	0.358	20	

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
12/31/14 16:08

Notes and Definitions

- FILT The sample was filtered in the lab prior to analysis.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 14L1460 Pg 1 of 2

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email: clientservices@alpha-labs.com

Central Valley Laboratory
9090 Union Park Way #113, Elk Grove CA 95624
916-686-5190 F) 916-686-5192

Alpha Analytical Laboratories Inc.
www.alpha-labs.com
WATERS, SEDIMENTS, SOLIDS

Report to		Invoice to (if different)		Project Information		Signature below authorizes work under terms stated on reverse side.	
Company:	Attn:	Contact:	Project ID:	Project No:	PO Number:	Analysis Request	
Carnegie SUPA	Tara de Silva					Standard 10 days <input type="radio"/>	Temp upon Receipt °C
	15751 Tesla Rd.					RUSH: 5 days <input type="radio"/>	Ukiah temp: <u>42</u>
	Livermore CA 94550					48 hours <input type="radio"/>	Dublin temp:
	(925) 455 7873					Other: ___ days <input type="radio"/>	Elk Grove temp:
	Tara de Silva @ parks.ca.gov					Lab preapproval required	
Field Sampler - Printed Name & Signature:	Tara de Silva						
	<i>[Signature]</i>						
Sample Identification	Sampling Date	Sampling Time	Container	Preservative	Matrix	Total Number of Containers per Sample ID	Sample Notes or CDPH Source Numbers:
KLN IN	12/12	11:15	X	X	Soil	1	per Davis Metals:
KLN OUT	12/12	11:30	X	X	Water	1	Dissolved 200.7 Al, Cd,
KLN 3	12/12	11:50	X	X	None	1	Cu, Pb, Fe, Zn & Dis
CHC IN	12/12	9:00	X	X	Other	1	Hg <u>AR</u> 12/17/14
Tesla Boundary	12/12	7:30	X	X	H2SO4	1	Add Chloride to All samples
T1	12/12	7:50	X	X	HNO3	1	per Davis <u>AR</u> 12/17/14
T2	12/12	7:58	X	X	HCl	1	
Metals 3	12/12	8:10	X	X	Other	1	
Metals 4	12/12	8:20	X	X	Sleeve	1	
Metals 5	12/12	8:35	X	X	Glass	1	
					40ml Vial		
Relinquished by		Received by		Date	Time	CDPH Write On EDT Transmission? Yes <input type="radio"/> No <input type="radio"/>	
<i>[Signature]</i>		<i>[Signature]</i>		12/12/14	1710	State System Number: _____	
				12/12/14	1920	if "Y" please enter the Source Number(s) in the column above	
				12-16-14	2235	CA Geotracker EDF Report? Yes <input type="radio"/> No <input type="radio"/>	
						Global ID: _____	
						EDF to (Email Address): _____	
						Sampling Company Log Code: _____	
						Travel and Site Time: _____	
						Misc. Supplies: _____	

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 14C1460 Pg 2 of 2

Signature below authorizes work under terms stated on reverse side.

Corporate Laboratory
208 Mason Street, Ukiah CA 95482
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email: clientservices@alpha-labs.com

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Bay Area Laboratory
6398 Dougherty Rd #35, Dublin CA 94568
925-828-6226 F) 925-828-6309

Report to		Invoice to (if different)		Project Information		Analysis Request		Temp upon Receipt °C	
Company:	Attn:	Contact:	Email address:	Project ID:	Project No:	Standard	RUSH:	Ukiah temp:	Dublin temp:
Carnegie SURA	Tara de Silva					10 days <input type="radio"/>	5 days <input type="radio"/>	47	
	15751 Tesla Rd.						48 hours <input type="radio"/>		
	Livermore CA 94550						Other: <input type="radio"/>		
	(925) 455-7873						___ days <input type="radio"/>		
	Tara.desilva@peaks.ca.gov								
	Field Sampler - Printed Name & Signature:								
	Tara de Silva								

Sample Identification	Sampling		40ml Vial	Container			Preservative			Matrix			Total Number of Containers per Sample ID	Date	Time	CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No
	Date	Time		Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None				
Tyson's In	12/12	915	X			X								12/14/14	1710	
Tyson's Out	12/12	923	X			X								12/16/14	1920	
Carrol In	12/12	1005	X			X								12/16/14	2235	
Carrol Out	12/12	1015	X			X										
Westend Road	12/12	1400	X			X										
CHC Out	12/12	1035	X			X										

Relinquished by	Received by	Mileage:	Misc. Supplies:
<i>[Signature]</i>	<i>[Signature]</i>		
<i>[Signature]</i>	<i>[Signature]</i>		
<i>[Signature]</i>	<i>[Signature]</i>		

State System Number:	CA Geotracker EDF Report?	Global ID:	Sampling Company Log Code:
	<input type="radio"/> Yes <input type="radio"/> No		
If "Y" please enter the Source Number(s) in the column above			
	<input type="radio"/> Yes <input type="radio"/> No		

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ELAP Certificates 1551, 2728, and 2922

04 March 2015

Calif. Dept. of Parks & Rec. - Carnegie SVRA

Attn: Tara deSilva

15751 Tesla Road

Livermore, CA 94550

RE: Storm Water Monitoring

Work Order: 15B1305

Enclosed are the results of analyses for samples received by the laboratory on 02/17/15 23:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore

Project Manager



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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Kiln Out	15B1305-01	Water	12/17/14 12:34	02/17/15 23:10
CHC Out	15B1305-02	Water	12/17/14 12:45	02/17/15 23:10
Carrol Out	15B1305-03	Water	12/17/14 11:55	02/17/15 23:10
Carrol In	15B1305-04	Water	12/17/14 12:02	02/17/15 23:10
Kiln In	15B1305-05	Water	12/17/14 12:23	02/17/15 23:10
M4	15B1305-06	Water	12/17/14 10:45	02/17/15 23:10
CHC In	15B1305-07	Water	12/17/14 11:03	02/17/15 23:10
Tesla Boundary	15B1305-08	Water	12/17/14 09:36	02/17/15 23:10
Kiln 3	15B1305-09	Water	12/17/14 07:52	02/17/15 23:10
M3	15B1305-10	Water	12/17/14 10:32	02/17/15 23:10
T1	15B1305-11	Water	12/17/14 09:48	02/17/15 23:10
Tyson's Out	15B1305-12	Water	12/17/14 11:14	02/17/15 23:10
T2	15B1305-13	Water	12/17/14 09:53	02/17/15 23:10
Tyson's In	15B1305-14	Water	12/17/14 11:10	02/17/15 23:10
M5	15B1305-15	Water	12/17/14 10:49	02/17/15 23:10
Roadside	15B1305-16	Water	12/17/14 12:58	02/17/15 23:10

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Kiln Out (15B1305-01) Water Sampled: 12/17/14 12:34 Received: 02/17/15 23:10											
Aluminum, dissolved	0.049	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 13:09	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0057	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:37	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 13:09	EPA 200.7	MAM	U
CHC Out (15B1305-02) Water Sampled: 12/17/14 12:45 Received: 02/17/15 23:10											
Aluminum, dissolved	0.046	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 13:46	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0055	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.020	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:44	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 13:46	EPA 200.7	MAM	U
Carrol Out (15B1305-03) Water Sampled: 12/17/14 11:55 Received: 02/17/15 23:10											
Aluminum, dissolved	0.069	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 13:52	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:46	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 13:52	EPA 200.7	MAM	U

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Carrol In (15B1305-04) Water Sampled: 12/17/14 12:02 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.13	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 13:57	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	0.11	0.020	0.10	"	"	"	"	"	"	"	
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:25	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 13:57	EPA 200.7	MAM	U
Kiln In (15B1305-05) Water Sampled: 12/17/14 12:23 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.050	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:02	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:49	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:02	EPA 200.7	MAM	U
M4 (15B1305-06) Water Sampled: 12/17/14 10:45 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.035	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:09	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:51	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:09	EPA 200.7	MAM	U

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15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
CHC In (15B1305-07) Water Sampled: 12/17/14 11:03 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.036	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:19	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0086	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:53	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:19	EPA 200.7	MAM	U
Tesla Boundary (15B1305-08) Water Sampled: 12/17/14 09:36 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.026	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:24	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:56	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:24	EPA 200.7	MAM	U
Kiln 3 (15B1305-09) Water Sampled: 12/17/14 07:52 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.058	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:29	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0042	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	0.062	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:58	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:29	EPA 200.7	MAM	U

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Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
M3 (15B1305-10) Water Sampled: 12/17/14 10:32 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.036	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 13:21	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	0.0080	0.0040	0.020	"	"	"	"	"	"	"	J
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 10:32	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 13:21	EPA 200.7	MAM	U
T1 (15B1305-11) Water Sampled: 12/17/14 09:48 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.030	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:35	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 11:01	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:35	EPA 200.7	MAM	U
Tyson's Out (15B1305-12) Water Sampled: 12/17/14 11:14 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.091	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:40	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	0.078	0.020	0.10	"	"	"	"	"	"	"	J
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 11:03	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:40	EPA 200.7	MAM	U

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Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
T2 (15B1305-13) Water Sampled: 12/17/14 09:53 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.034	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:45	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 11:05	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:45	EPA 200.7	MAM	U
Tyson's In (15B1305-14) Water Sampled: 12/17/14 11:10 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.056	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:50	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 11:13	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:50	EPA 200.7	MAM	U
M5 (15B1305-15) Water Sampled: 12/17/14 10:49 Received: 02/17/15 23:10 FILT											
Aluminum, dissolved	0.031	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 14:56	EPA 200.7	MAM	J
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	ND	0.020	0.10	"	"	"	"	"	"	"	U
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 11:15	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 14:56	EPA 200.7	MAM	U

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Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Roadside (15B1305-16) Water Sampled: 12/17/14 12:58 Received: 02/17/15 23:10											
Aluminum, dissolved	0.34	0.020	0.050	mg/L	1	AB52442	02/24/15 10:33	03/02/15 15:01	EPA 200.7	MAM	
Cadmium, dissolved	ND	0.00030	0.010	"	"	"	"	"	"	"	U
Chromium, dissolved	ND	0.0040	0.010	"	"	"	"	"	"	"	U
Copper, dissolved	ND	0.0040	0.020	"	"	"	"	"	"	"	U
Iron, dissolved	0.27	0.020	0.10	"	"	"	"	"	"	"	
Lead, dissolved	ND	0.020	0.050	"	"	"	"	"	"	"	U
Mercury, dissolved	ND	0.00010	0.0010	"	"	AB52354	02/23/15 13:02	02/25/15 11:17	EPA 245.1	JJM	U
Zinc, dissolved	ND	0.0080	0.020	"	"	AB52442	02/24/15 10:33	03/02/15 15:01	EPA 200.7	MAM	U

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Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Kiln Out (15B1305-01) Water Sampled: 12/17/14 12:34 Received: 02/17/15 23:10											
Chloride	160	0.60	5.0	mg/L	10	AB51852	02/18/15 23:29	02/18/15 23:29	EPA 300.0	SMP	T-2
CHC Out (15B1305-02) Water Sampled: 12/17/14 12:45 Received: 02/17/15 23:10											
Chloride	34	0.60	5.0	mg/L	10	AB51852	02/18/15 23:43	02/18/15 23:43	EPA 300.0	SMP	T-2
Carrol Out (15B1305-03) Water Sampled: 12/17/14 11:55 Received: 02/17/15 23:10											
Chloride	71	1.5	12	mg/L	25	AB51852	02/18/15 23:58	02/18/15 23:58	EPA 300.0	SMP	T-2
Carrol In (15B1305-04) Water Sampled: 12/17/14 12:02 Received: 02/17/15 23:10											
Chloride	81	1.5	12	mg/L	25	AB51852	02/19/15 00:12	02/19/15 00:12	EPA 300.0	SMP	T-2
Kiln In (15B1305-05) Water Sampled: 12/17/14 12:23 Received: 02/17/15 23:10											
Chloride	220	1.5	12	mg/L	25	AB51852	02/20/15 09:58	02/20/15 09:58	EPA 300.0	SMP	T-2
M4 (15B1305-06) Water Sampled: 12/17/14 10:45 Received: 02/17/15 23:10											
Chloride	43	0.60	5.0	mg/L	10	AB51852	02/19/15 00:42	02/19/15 00:42	EPA 300.0	SMP	T-2
CHC In (15B1305-07) Water Sampled: 12/17/14 11:03 Received: 02/17/15 23:10											
Chloride	35	0.60	5.0	mg/L	10	AB51852	02/19/15 00:56	02/19/15 00:56	EPA 300.0	SMP	T-2
Tesla Boundary (15B1305-08) Water Sampled: 12/17/14 09:36 Received: 02/17/15 23:10											
Chloride	38	0.60	5.0	mg/L	10	AB51852	02/19/15 01:11	02/19/15 01:11	EPA 300.0	SMP	T-2
Kiln 3 (15B1305-09) Water Sampled: 12/17/14 07:52 Received: 02/17/15 23:10											
Chloride	31	0.30	2.5	mg/L	5	AB51852	02/19/15 01:25	02/19/15 01:25	EPA 300.0	SMP	T-2

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
M3 (15B1305-10) Water Sampled: 12/17/14 10:32 Received: 02/17/15 23:10											
Chloride	42	0.60	5.0	mg/L	10	AB51852	02/19/15 01:40	02/19/15 01:40	EPA 300.0	SMP	T-2
T1 (15B1305-11) Water Sampled: 12/17/14 09:48 Received: 02/17/15 23:10											
Chloride	41	0.60	5.0	mg/L	10	AB51852	02/19/15 02:24	02/19/15 02:24	EPA 300.0	SMP	T-2
Tyson's Out (15B1305-12) Water Sampled: 12/17/14 11:14 Received: 02/17/15 23:10											
Chloride	5.1	0.060	0.50	mg/L	1	AB51852	02/20/15 08:41	02/20/15 08:41	EPA 300.0	SMP	T-2
T2 (15B1305-13) Water Sampled: 12/17/14 09:53 Received: 02/17/15 23:10											
Chloride	43	0.60	5.0	mg/L	10	AB51852	02/19/15 02:53	02/19/15 02:53	EPA 300.0	SMP	T-2
Tyson's In (15B1305-14) Water Sampled: 12/17/14 11:10 Received: 02/17/15 23:10											
Chloride	34	1.5	12	mg/L	25	AB51852	02/19/15 03:07	02/19/15 03:07	EPA 300.0	SMP	T-2
M5 (15B1305-15) Water Sampled: 12/17/14 10:49 Received: 02/17/15 23:10											
Chloride	85	1.2	10	mg/L	20	AB51852	02/19/15 03:22	02/19/15 03:22	EPA 300.0	SMP	T-2
Roadside (15B1305-16) Water Sampled: 12/17/14 12:58 Received: 02/17/15 23:10											
Chloride	5.4	0.060	0.50	mg/L	1	AB51852	02/20/15 08:56	02/20/15 08:56	EPA 300.0	SMP	T-2

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB52354 - EPA 245.1 Hg Water

Blank (AB52354-BLK1) Prepared: 02/23/15 Analyzed: 02/25/15

Mercury, dissolved	ND	0.00010	0.0010	mg/L							U
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LCS (AB52354-BS1) Prepared: 02/23/15 Analyzed: 02/25/15

Mercury, dissolved	0.00226	0.00010	0.0010	mg/L	0.00250		90.4	85-115			
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Duplicate (AB52354-DUP1) Source: 15B1305-04 Prepared: 02/23/15 Analyzed: 02/25/15

Mercury, dissolved	ND	0.00010	0.0010	mg/L		ND			20		U
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Matrix Spike (AB52354-MS1) Source: 15B1305-04 Prepared: 02/23/15 Analyzed: 02/25/15

Mercury, dissolved	0.00221	0.00010	0.0010	mg/L	0.00250	ND	88.4	70-130			
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Matrix Spike (AB52354-MS2) Source: 15B1305-10 Prepared: 02/23/15 Analyzed: 02/25/15

Mercury, dissolved	0.00221	0.00010	0.0010	mg/L	0.00250	ND	88.4	70-130			
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Matrix Spike Dup (AB52354-MSD1) Source: 15B1305-04 Prepared: 02/23/15 Analyzed: 02/25/15

Mercury, dissolved	0.00235	0.00010	0.0010	mg/L	0.00250	ND	94.0	70-130	6.14	20	
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Batch AB52442 - Metals Digest

Blank (AB52442-BLK1) Prepared: 02/24/15 Analyzed: 03/02/15

Aluminum, dissolved	ND	0.020	0.050	mg/L							U
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Cadmium, dissolved	ND	0.00030	0.010	"							U
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Chromium, dissolved	ND	0.0040	0.010	"							U
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Copper, dissolved	0.00765	0.0040	0.020	"							J
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Iron, dissolved	ND	0.020	0.10	"							U
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Lead, dissolved	ND	0.020	0.050	"							U
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Zinc, dissolved	ND	0.0080	0.020	"							U
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15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB52442 - Metals Digest

LCS (AB52442-BS1)

Prepared: 02/24/15 Analyzed: 03/02/15

Aluminum, dissolved	2.24	0.020	0.050	mg/L	2.00		112	85-115			
Cadmium, dissolved	0.210	0.00030	0.010	"	0.200		105	85-115			
Chromium, dissolved	0.219	0.0040	0.010	"	0.200		110	85-115			
Copper, dissolved	0.246	0.0040	0.020	"	0.208		118	85-115			QM-03
Iron, dissolved	2.22	0.020	0.10	"	2.00		111	85-115			
Lead, dissolved	0.218	0.020	0.050	"	0.200		109	85-115			
Zinc, dissolved	0.216	0.0080	0.020	"	0.200		108	85-115			

Duplicate (AB52442-DUP1)

Source: 15B1305-01

Prepared: 02/24/15 Analyzed: 03/02/15

Aluminum, dissolved	0.0534	0.020	0.050	mg/L		0.0491			8.34	20	
Cadmium, dissolved	ND	0.00030	0.010	"		ND				20	U
Chromium, dissolved	ND	0.0040	0.010	"		ND				20	U
Copper, dissolved	0.00607	0.0040	0.020	"		0.00565			7.17	20	J
Iron, dissolved	ND	0.020	0.10	"		ND				20	U
Lead, dissolved	ND	0.020	0.050	"		ND				20	U
Zinc, dissolved	ND	0.0080	0.020	"		ND				20	U

Matrix Spike (AB52442-MS1)

Source: 15B1305-01

Prepared: 02/24/15 Analyzed: 03/02/15

Aluminum, dissolved	2.15	0.020	0.050	mg/L	2.00	0.0491	105	70-130			
Cadmium, dissolved	0.197	0.00030	0.010	"	0.200	ND	98.3	70-130			
Chromium, dissolved	0.202	0.0040	0.010	"	0.200	ND	101	70-130			
Copper, dissolved	0.239	0.0040	0.020	"	0.208	0.00565	112	70-130			
Iron, dissolved	2.01	0.020	0.10	"	2.00	ND	100	70-130			
Lead, dissolved	0.209	0.020	0.050	"	0.200	ND	105	70-130			
Zinc, dissolved	0.193	0.0080	0.020	"	0.200	ND	96.3	70-130			

Matrix Spike (AB52442-MS2)

Source: 15B1305-10

Prepared: 02/24/15 Analyzed: 03/02/15

Aluminum, dissolved	2.09	0.020	0.050	mg/L	2.00	0.0358	102	70-130			
Cadmium, dissolved	0.190	0.00030	0.010	"	0.200	ND	94.8	70-130			
Chromium, dissolved	0.195	0.0040	0.010	"	0.200	ND	97.4	70-130			
Copper, dissolved	0.229	0.0040	0.020	"	0.208	0.00798	106	70-130			
Iron, dissolved	1.94	0.020	0.10	"	2.00	ND	96.8	70-130			

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB52442 - Metals Digest

Matrix Spike (AB52442-MS2)

Source: 15B1305-10

Prepared: 02/24/15 Analyzed: 03/02/15

Lead, dissolved	0.204	0.020	0.050	mg/L	0.200	ND	102	70-130			
Zinc, dissolved	0.187	0.0080	0.020	"	0.200	ND	93.7	70-130			

Matrix Spike Dup (AB52442-MSD1)

Source: 15B1305-01

Prepared: 02/24/15 Analyzed: 03/02/15

Aluminum, dissolved	2.09	0.020	0.050	mg/L	2.00	0.0491	102	70-130	2.96	20	
Cadmium, dissolved	0.190	0.00030	0.010	"	0.200	ND	95.1	70-130	3.36	20	
Chromium, dissolved	0.195	0.0040	0.010	"	0.200	ND	97.7	70-130	3.34	20	
Copper, dissolved	0.235	0.0040	0.020	"	0.208	0.00565	110	70-130	1.90	20	
Iron, dissolved	1.96	0.020	0.10	"	2.00	ND	97.8	70-130	2.54	20	
Lead, dissolved	0.206	0.020	0.050	"	0.200	ND	103	70-130	1.52	20	
Zinc, dissolved	0.187	0.0080	0.020	"	0.200	ND	93.4	70-130	3.02	20	

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15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB51852 - General Preparation											
Blank (AB51852-BLK1) Prepared & Analyzed: 02/18/15											
Chloride	ND	0.060	0.50	mg/L							U
LCS (AB51852-BS1) Prepared & Analyzed: 02/18/15											
Chloride	11.0	0.060	0.50	mg/L	11.1		99.4	90-110			
Duplicate (AB51852-DUP1) Source: 15B1355-02 Prepared & Analyzed: 02/19/15											
Chloride	15.2	0.060	0.50	mg/L		15.1			0.225	20	
Matrix Spike (AB51852-MS1) Source: 15B1355-02 Prepared & Analyzed: 02/19/15											
Chloride	27.1	0.30	2.5	mg/L	11.1	15.1	108	80-120			
Matrix Spike (AB51852-MS2) Source: 15B1305-16 Prepared & Analyzed: 02/19/15											
Chloride	16.6	0.30	2.5	mg/L	11.1	5.43	100	80-120			
Matrix Spike Dup (AB51852-MSD1) Source: 15B1355-02 Prepared & Analyzed: 02/19/15											
Chloride	27.3	0.30	2.5	mg/L	11.1	15.1	109	80-120	0.531	20	

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15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: [none]
Project Manager: Tara deSilva

Reported:
03/04/15 16:35

Notes and Definitions

FILT	The sample was filtered in the lab prior to analysis.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
QM-03	The spike recovery was high for this analyte. The batch was accepted based on a non-detect for the analyte.
T-2	Sample analyzed outside of recommended holding time per client.
U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No. 15B1305 Pg 1 of 2

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916-686-5190 F) 916-686-5192

ELAP Certifications
Ukiah 1551 / Dublin 2728 / Elk Grove 2922



Report to		Invoice to (if different)		Project Information				Analysis Request		Temp upon Receipt °C	
Company:	Contact:	Project ID:	Project No:	Container	Preservative	Matrix	Standard	Ukiah temp:	Lab preapproval required	Dublin temp:	
Carnegie SVRA	Tara de Silva	Stamwater		40ml Val	None	Soil	10 days	44			
Attn: Tara de Silva	Email address:	PO Number:		Other	H2SO4	Water	RUSH: 5 days				
Address: 15751 Tesla Road	Address:			Sleeve	HNO3	Other	48 hours				
Livermore, CA 94550	Phone/Fax:			Glass	Other	Other	Other: days				
Phone/Fax: (925) 455 7873				Poly			Lab preapproval required				
Email Address: tara.desilva@parks.ca.gov				Other							
Field Sampler - Printed Name & Signature: Tara de Silva											
Sample Identification	Date	Time	Container	Preservative	Matrix	Total Number of Containers per Sample ID	Analysis Request	CDPH Source Numbers:	Sample Notes or	CDPH Write On EDT Transmission?	
Kiln Out	12/17	1234	X	None	Soil	1	200.7 Dissolved Metals (note)	200.7 Dissolved Metals		<input type="radio"/> Yes <input type="radio"/> No	
CHC Out	12/17	1245	X	H2SO4	Water	1		Aluminum, Cadmium,			
Carroll Out	12/17	1155	X	HNO3	Other	1		Chromium, Copper,			
Carroll In	12/17	1202	X	Other		1		Lead, Iron, Mercury,			
Kiln In	12/17	1223	X	Sleeve		1		Chloride, Zinc			
M4	12/17	1045	X	Glass		1			OK to run Cl & Hg		
CHC In	12/17	1103	X	Poly		1			out of hold per David		
Tesla Boundary	12/17	0936	X	Other		1			(AD) 2/18/15		
Kiln 3	12/17	0752	X			1					
M3	12/17	1032	X			1					
Relinquished by: Tara de Silva	Received by: Tara de Silva		Date: 12/17/15	Time: 1530	State System Number: 17-15		If "Y" please enter the Source Number(s) in the column above		CA Geotracker EDF Report? <input type="radio"/> Yes <input type="radio"/> No		
			Date: 12/17/15	Time: 2310	Global ID: 15B1305		Travel and Site Time: 1:00		Misc. Supplies:		

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.12:2008
AB52354-BLK1			FILT: The sample was filtered in the lab prior to analysis.
AB52354-BS1			FILT: The sample was filtered in the lab prior to analysis.
AB52354-DUP1			FILT: The sample was filtered in the lab prior to analysis.
AB52354-MS1			FILT: The sample was filtered in the lab prior to analysis.
AB52354-MS2			FILT: The sample was filtered in the lab prior to analysis.
AB52354-MSD1			FILT: The sample was filtered in the lab prior to analysis.
	Al Diss ICP 200.7	(Water)	J-Flags used
	Al Diss ICP 200.7	(Water)	Result calculations based on MDL
	Al Diss ICP 200.7	(Water)	U-Flags used
15B1305-01	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-09	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-12	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Al Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
	Cd Diss ICP 200.7	(Water)	J-Flags used
	Cd Diss ICP 200.7	(Water)	Result calculations based on MDL
	Cd Diss ICP 200.7	(Water)	U-Flags used
15B1305-01	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-09	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
15B1305-12	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Cd Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
	Chloride 300.0	(Water)	J-Flags used
	Chloride 300.0	(Water)	Result calculations based on MDL
	Chloride 300.0	(Water)	U-Flags used
15B1305-01	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-01	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-02	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-02	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-03	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-03	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-04	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-04	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-05	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-05	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-06	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-06	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-07	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-07	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-08	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-08	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-09	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-09	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-10	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-10	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-11	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-11	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-12	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-12	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-13	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-13	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-14	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-14	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-15	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-15	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.
15B1305-16	Chloride 300.0		Sampled->Prepared > 28.00 days
15B1305-16	Chloride 300.0	Chloride	T-2: Sample analyzed outside of recommended holding time per client.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Cr Diss ICP 200.7	(Water)	J-Flags used
	Cr Diss ICP 200.7	(Water)	Result calculations based on MDL
	Cr Diss ICP 200.7	(Water)	U-Flags used
15B1305-01	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-09	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-12	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Cr Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
	Cu Diss ICP 200.7	(Water)	J-Flags used
	Cu Diss ICP 200.7	(Water)	Result calculations based on MDL
	Cu Diss ICP 200.7	(Water)	U-Flags used
15B1305-01	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-09	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-12	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Cu Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
AB52442-BS1	Cu Diss ICP 200.7	Copper, dissolved	Exceeds upper control limit
AB52442-BS1	Cu Diss ICP 200.7	Copper, dissolved	QM-03: The spike recovery was high for this analyte. The batch was accepted based on a non-detect for the analyte.
	Fe Diss ICP 200.7	(Water)	J-Flags used
	Fe Diss ICP 200.7	(Water)	Result calculations based on MDL
	Fe Diss ICP 200.7	(Water)	U-Flags used
15B1305-01	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
15B1305-09	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-12	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Fe Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
	Filtration	(Water)	J-Flags used
	Filtration	(Water)	Result calculations based on MDL
	Filtration	(Water)	U-Flags used
	Handling & Disposal	(Water)	J-Flags used
	Handling & Disposal	(Water)	Result calculations based on MDL
	Handling & Disposal	(Water)	U-Flags used
	Hg Diss CVAA 245.1 1ppb	(Water)	J-Flags used
	Hg Diss CVAA 245.1 1ppb	(Water)	Result calculations based on MDL
	Hg Diss CVAA 245.1 1ppb	(Water)	U-Flags used
15B1305-01	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-01	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-02	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-03	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-04	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-05	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-06	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-07	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-08	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-09	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-09	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-10	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-11	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-12	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-12	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-13	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-14	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-15	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Hg Diss CVAA 245.1 1ppb		Sampled->Prepared > 28.00 days
15B1305-16	Hg Diss CVAA 245.1 1ppb		FILT: The sample was filtered in the lab prior to analysis.
	J Flags	(Water)	J-Flags used
	J Flags	(Water)	Result calculations based on MDL
	J Flags	(Water)	U-Flags used

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Pb Diss ICP 200.7	(Water)	J-Flags used
	Pb Diss ICP 200.7	(Water)	Result calculations based on MDL
	Pb Diss ICP 200.7	(Water)	U-Flags used
15B1305-01	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-09	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-12	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Pb Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
	Zn Diss ICP 200.7	(Water)	J-Flags used
	Zn Diss ICP 200.7	(Water)	Result calculations based on MDL
	Zn Diss ICP 200.7	(Water)	U-Flags used
15B1305-01	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-02	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-03	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-04	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-05	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-06	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-07	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-08	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-09	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-10	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-11	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-12	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-13	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-14	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-15	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.
15B1305-16	Zn Diss ICP 200.7		FILT: The sample was filtered in the lab prior to analysis.



Alpha Analytical Laboratories Inc.

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ELAP Certificates 1551, 2728, and 2922

18 March 2015

Calif. Dept. of Parks & Rec. - Carnegie SVRA

Tara deSilva

15751 Tesla Road

Livermore, CA 94550

RE: Storm Water Monitoring

Work Order: 15C0119

Enclosed are the results of analyses for samples received by the laboratory on 03/02/15 22:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore
Project Manager



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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T2	15C0119-01	Soil	02/26/15 08:36	03/02/15 22:50
Tesla Boundary	15C0119-02	Soil	02/26/15 07:49	03/02/15 22:50
Roadside	15C0119-03	Soil	02/26/15 16:18	03/02/15 22:50
M5	15C0119-04	Soil	02/26/15 10:40	03/02/15 22:50
T1	15C0119-05	Soil	02/26/15 08:31	03/02/15 22:50
M4	15C0119-06	Soil	02/26/15 10:54	03/02/15 22:50
Kiln Out	15C0119-07	Soil	02/26/15 15:42	03/02/15 22:50
Kiln In	15C0119-08	Soil	02/26/15 15:36	03/02/15 22:50
CHC Out	15C0119-09	Soil	02/26/15 15:49	03/02/15 22:50
Tyson's Out	15C0119-10	Soil	02/26/15 11:43	03/02/15 22:50
Carrol In	15C0119-11	Soil	02/26/15 16:03	03/02/15 22:50
Kiln 3	15C0119-12	Soil	02/26/15 15:16	03/02/15 22:50
Tyson's In	15C0119-13	Soil	02/26/15 11:32	03/02/15 22:50
CHC In	15C0119-14	Soil	02/26/15 11:20	03/02/15 22:50
M3	15C0119-15	Soil	02/26/15 10:49	03/02/15 22:50
Carrol Out	15C0119-16	Soil	02/26/15 16:11	03/02/15 22:50

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



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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

T2
15C0119-01(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	20000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 15:50	EPA 6010B	
Cadmium	0.090	0.070	1.0	"	"	"	"	"	"	J
Chromium	38	0.090	5.0	"	"	"	"	"	"	
Copper	20	0.20	10	"	"	"	"	"	"	
Iron	21000	3.0	50	"	"	"	"	"	"	
Lead	7.1	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:19	EPA 7471A	U
Zinc	47	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 15:50	EPA 6010B	

Anions by EPA Method 300.0

Chloride	700	3.0	25	mg/kg	5	AC51352	03/14/15 11:07	03/14/15 11:07	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

**Tesla Boundary
15C0119-02(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	12000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 15:55	EPA 6010B	
Cadmium	0.20	0.070	1.0	"	"	"	"	"	"	J
Chromium	23	0.090	5.0	"	"	"	"	"	"	
Copper	23	0.20	10	"	"	"	"	"	"	
Iron	16000	3.0	50	"	"	"	"	"	"	
Lead	8.9	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:26	EPA 7471A	U
Zinc	51	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 15:55	EPA 6010B	

Anions by EPA Method 300.0

Chloride	79	0.60	5.0	mg/kg	1	AC51352	03/14/15 11:37	03/14/15 11:37	EPA 300.0	
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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Roadside
15C0119-03(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	31000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 15:59	EPA 6010B	
Cadmium	0.23	0.070	1.0	"	"	"	"	"	"	J
Chromium	48	0.090	5.0	"	"	"	"	"	"	
Copper	37	0.20	10	"	"	"	"	"	"	
Iron	29000	3.0	50	"	"	"	"	"	"	
Lead	20	0.10	5.0	"	"	"	"	"	"	
Mercury	0.065	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:29	EPA 7471A	J
Zinc	1000	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 15:59	EPA 6010B	

Anions by EPA Method 300.0

Chloride	200	0.60	5.0	mg/kg	1	AC51352	03/14/15 12:06	03/14/15 12:06	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

M5

15C0119-04(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	39000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:06	EPA 6010B	
Cadmium	0.17	0.070	1.0	"	"	"	"	"	"	J
Chromium	54	0.090	5.0	"	"	"	"	"	"	
Copper	34	0.20	10	"	"	"	"	"	"	
Iron	32000	3.0	50	"	"	"	"	"	"	
Lead	11	0.10	5.0	"	"	"	"	"	"	
Mercury	0.030	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:31	EPA 7471A	J
Zinc	76	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:06	EPA 6010B	

Anions by EPA Method 300.0

Chloride	55	0.60	5.0	mg/kg	1	AC51352	03/14/15 12:35	03/14/15 12:35	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

T1

15C0119-05(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	15000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:13	EPA 6010B	
Cadmium	0.13	0.070	1.0	"	"	"	"	"	"	J
Chromium	20	0.090	5.0	"	"	"	"	"	"	
Copper	9.4	0.20	10	"	"	"	"	"	"	J
Iron	14000	3.0	50	"	"	"	"	"	"	
Lead	7.7	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:34	EPA 7471A	U
Zinc	37	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:13	EPA 6010B	

Anions by EPA Method 300.0

Chloride	48	0.60	5.0	mg/kg	1	AC51352	03/14/15 13:04	03/14/15 13:04	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

M4

15C0119-06(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	16000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:27	EPA 6010B	
Cadmium	0.11	0.070	1.0	"	"	"	"	"	"	J
Chromium	26	0.090	5.0	"	"	"	"	"	"	
Copper	20	0.20	10	"	"	"	"	"	"	
Iron	19000	3.0	50	"	"	"	"	"	"	
Lead	7.2	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:36	EPA 7471A	U
Zinc	42	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:27	EPA 6010B	

Anions by EPA Method 300.0

Chloride	140	0.60	5.0	mg/kg	1	AC51352	03/14/15 14:02	03/14/15 14:02	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Kiln Out
15C0119-07(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	25000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 15:46	EPA 6010B	
Cadmium	0.17	0.070	1.0	"	"	"	"	"	"	J
Chromium	59	0.090	5.0	"	"	"	"	"	"	
Copper	35	0.20	10	"	"	"	"	"	"	
Iron	24000	3.0	50	"	"	"	"	"	"	
Lead	12	0.10	5.0	"	"	"	"	"	"	
Mercury	0.90	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:38	EPA 7471A	
Zinc	64	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 15:46	EPA 6010B	

Anions by EPA Method 300.0

Chloride	250	3.0	25	mg/kg	5	AC51352	03/14/15 14:32	03/14/15 14:32	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

**Kiln In
15C0119-08(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	19000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:32	EPA 6010B	
Cadmium	0.15	0.070	1.0	"	"	"	"	"	"	J
Chromium	53	0.090	5.0	"	"	"	"	"	"	
Copper	35	0.20	10	"	"	"	"	"	"	
Iron	26000	3.0	50	"	"	"	"	"	"	
Lead	8.7	0.10	5.0	"	"	"	"	"	"	
Mercury	0.32	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:41	EPA 7471A	
Zinc	49	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:32	EPA 6010B	

Anions by EPA Method 300.0

Chloride	120	0.60	5.0	mg/kg	1	AC51352	03/14/15 15:01	03/14/15 15:01	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

CHC Out
15C0119-09(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	33000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:36	EPA 6010B	
Cadmium	0.30	0.070	1.0	"	"	"	"	"	"	J
Chromium	62	0.090	5.0	"	"	"	"	"	"	
Copper	41	0.20	10	"	"	"	"	"	"	
Iron	33000	3.0	50	"	"	"	"	"	"	
Lead	13	0.10	5.0	"	"	"	"	"	"	
Mercury	0.050	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:43	EPA 7471A	J
Zinc	83	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:36	EPA 6010B	

Anions by EPA Method 300.0

Chloride	150	0.60	5.0	mg/kg	1	AC51352	03/14/15 15:30	03/14/15 15:30	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Tyson's Out
15C0119-10(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	23000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:43	EPA 6010B	
Cadmium	0.21	0.070	1.0	"	"	"	"	"	"	J
Chromium	43	0.090	5.0	"	"	"	"	"	"	
Copper	29	0.20	10	"	"	"	"	"	"	
Iron	25000	3.0	50	"	"	"	"	"	"	
Lead	8.7	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:45	EPA 7471A	U
Zinc	93	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:43	EPA 6010B	

Anions by EPA Method 300.0

Chloride	6.2	0.60	5.0	mg/kg	1	AC51352	03/14/15 15:59	03/14/15 15:59	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

**Carrol In
15C0119-11(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	15000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:48	EPA 6010B	
Cadmium	0.21	0.070	1.0	"	"	"	"	"	"	J
Chromium	35	0.090	5.0	"	"	"	"	"	"	
Copper	26	0.20	10	"	"	"	"	"	"	
Iron	25000	3.0	50	"	"	"	"	"	"	
Lead	8.8	0.10	5.0	"	"	"	"	"	"	
Mercury	0.085	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:48	EPA 7471A	J
Zinc	49	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:48	EPA 6010B	

Anions by EPA Method 300.0

Chloride	12	0.60	5.0	mg/kg	1	AC51352	03/14/15 16:57	03/14/15 16:57	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Kiln 3
15C0119-12(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	12000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:52	EPA 6010B	
Cadmium	ND	0.070	1.0	"	"	"	"	"	"	U
Chromium	32	0.090	5.0	"	"	"	"	"	"	
Copper	20	0.20	10	"	"	"	"	"	"	
Iron	15000	3.0	50	"	"	"	"	"	"	
Lead	5.2	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:55	EPA 7471A	U
Zinc	33	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:52	EPA 6010B	

Anions by EPA Method 300.0

Chloride	120	0.60	5.0	mg/kg	1	AC51352	03/14/15 17:27	03/14/15 17:27	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

**Tyson's In
15C0119-13(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	14000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 16:57	EPA 6010B	
Cadmium	0.16	0.070	1.0	"	"	"	"	"	"	J
Chromium	33	0.090	5.0	"	"	"	"	"	"	
Copper	21	0.20	10	"	"	"	"	"	"	
Iron	19000	3.0	50	"	"	"	"	"	"	
Lead	6.9	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 14:57	EPA 7471A	U
Zinc	40	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 16:57	EPA 6010B	

Anions by EPA Method 300.0

Chloride	5.3	0.60	5.0	mg/kg	1	AC51352	03/14/15 17:56	03/14/15 17:56	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

CHC In
15C0119-14(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	40000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 17:01	EPA 6010B	
Cadmium	0.18	0.070	1.0	"	"	"	"	"	"	J
Chromium	56	0.090	5.0	"	"	"	"	"	"	
Copper	36	0.20	10	"	"	"	"	"	"	
Iron	34000	3.0	50	"	"	"	"	"	"	
Lead	12	0.10	5.0	"	"	"	"	"	"	
Mercury	0.020	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 15:00	EPA 7471A	J
Zinc	77	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 17:01	EPA 6010B	

Anions by EPA Method 300.0

Chloride	10	0.60	5.0	mg/kg	1	AC51352	03/14/15 18:25	03/14/15 18:25	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

M3

15C0119-15(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	16000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 17:08	EPA 6010B	
Cadmium	ND	0.070	1.0	"	"	"	"	"	"	U
Chromium	22	0.090	5.0	"	"	"	"	"	"	
Copper	13	0.20	10	"	"	"	"	"	"	
Iron	14000	3.0	50	"	"	"	"	"	"	
Lead	4.3	0.10	5.0	"	"	"	"	"	"	J
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 15:02	EPA 7471A	U
Zinc	28	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 17:08	EPA 6010B	

Anions by EPA Method 300.0

Chloride	46	0.60	5.0	mg/kg	1	AC51352	03/14/15 18:54	03/14/15 18:54	EPA 300.0	
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15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring

Project Number: Metals

Project Manager: Tara deSilva

Reported:
03/18/15 09:05

**Carrol Out
15C0119-16(Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Alpha Analytical Laboratories, Inc.

Metals by EPA 6000/7000 Series Methods

Aluminum	19000	2.0	20	mg/kg	1	AC50336	03/05/15 14:11	03/11/15 17:13	EPA 6010B	
Cadmium	0.21	0.070	1.0	"	"	"	"	"	"	J
Chromium	32	0.090	5.0	"	"	"	"	"	"	
Copper	20	0.20	10	"	"	"	"	"	"	
Iron	19000	3.0	50	"	"	"	"	"	"	
Lead	8.7	0.10	5.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.20	"	"	AC50979	03/09/15 16:04	03/10/15 15:05	EPA 7471A	U
Zinc	50	0.40	10	"	"	AC50336	03/05/15 14:11	03/11/15 17:13	EPA 6010B	

Anions by EPA Method 300.0

Chloride	89	0.60	5.0	mg/kg	1	AC51352	03/14/15 19:53	03/14/15 19:53	EPA 300.0	
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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Metals by EPA 6000/7000 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AC50336 - EPA 3051 Microwave

Blank (AC50336-BLK1)

Prepared: 03/03/15 Analyzed: 03/05/15

Chromium	ND	0.090	5.0	mg/kg							U
Aluminum	ND	2.0	20	"							U
Lead	ND	0.10	5.0	"							U
Cadmium	ND	0.070	1.0	"							U
Zinc	ND	0.40	10	"							U
Iron	ND	3.0	50	"							U
Copper	ND	0.20	10	"							U

LCS (AC50336-BS1)

Prepared: 03/03/15 Analyzed: 03/05/15

Zinc	19.2	0.40	10	mg/kg	20.0		96.1	85-115			
Iron	195	3.0	50	"	200		97.7	85-115			
Lead	20.1	0.10	5.0	"	20.0		101	85-115			
Chromium	19.9	0.090	5.0	"	20.0		99.7	85-115			
Copper	20.8	0.20	10	"	20.8		99.8	85-115			
Cadmium	18.9	0.070	1.0	"	20.0		94.4	85-115			
Aluminum	196	2.0	20	"	200		98.1	85-115			

Duplicate (AC50336-DUP1)

Source: 15C0024-01

Prepared: 03/03/15 Analyzed: 03/05/15

Copper	68.9	0.20	10	mg/kg		78.7			13.4	20	
Cadmium	0.747	0.070	1.0	"		0.923			21.1	20	J
Iron	25900	3.0	50	"		26400			2.11	20	
Aluminum	24300	2.0	20	"		23100			5.28	20	
Chromium	220	0.090	5.0	"		283			25.2	20	QM-04
Lead	10.3	0.10	5.0	"		11.4			9.82	20	
Zinc	240	0.40	10	"		264			9.34	20	

Matrix Spike (AC50336-MS1)

Source: 15C0024-01

Prepared: 03/03/15 Analyzed: 03/05/15

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Metals by EPA 6000/7000 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AC50336 - EPA 3051 Microwave

Matrix Spike (AC50336-MS1)		Source: 15C0024-01			Prepared: 03/03/15		Analyzed: 03/05/15				
Lead	24.8	0.10	5.0	mg/kg	20.0	11.4	67.4	70-130			QM-04
Iron	22200	3.0	50	"	200	26400	NR	70-130			QM-4X
Zinc	243	0.40	10	"	20.0	264	NR	70-130			QM-4X
Copper	89.5	0.20	10	"	20.8	78.7	51.6	70-130			QM-04
Chromium	199	0.090	5.0	"	20.0	283	NR	70-130			QM-04
Cadmium	16.7	0.070	1.0	"	20.0	0.923	78.8	70-130			
Aluminum	21400	2.0	20	"	200	23100	NR	70-130			QM-4X

Matrix Spike (AC50336-MS2)		Source: 15C0119-07			Prepared: 03/03/15		Analyzed: 03/11/15				
Iron	26100	3.0	50	mg/kg	200	24300	931	70-130			QM-4X
Lead	28.0	0.10	5.0	"	20.0	12.1	79.4	70-130			
Copper	55.6	0.20	10	"	20.8	35.2	98.1	70-130			
Chromium	72.9	0.090	5.0	"	20.0	59.5	67.0	70-130			QM-04
Cadmium	16.1	0.070	1.0	"	20.0	0.172	79.4	70-130			
Aluminum	24100	2.0	20	"	200	24800	NR	70-130			QM-4X
Zinc	79.7	0.40	10	"	20.0	63.6	80.7	70-130			

Matrix Spike Dup (AC50336-MSD1)		Source: 15C0024-01			Prepared: 03/03/15		Analyzed: 03/05/15				
Aluminum	21000	2.0	20	mg/kg	200	23100	NR	70-130	1.48	20	QM-4X
Chromium	341	0.090	5.0	"	20.0	283	287	70-130	52.5	20	QM-04
Cadmium	16.7	0.070	1.0	"	20.0	0.923	79.1	70-130	0.320	20	
Iron	24200	3.0	50	"	200	26400	NR	70-130	8.41	20	QM-4X
Lead	27.8	0.10	5.0	"	20.0	11.4	82.3	70-130	11.4	20	
Zinc	280	0.40	10	"	20.0	264	80.4	70-130	14.2	20	
Copper	106	0.20	10	"	20.8	78.7	133	70-130	17.2	20	QM-04

Batch AC50979 - EPA 7471A Hg Soil

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Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Metals by EPA 6000/7000 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC50979 - EPA 7471A Hg Soil											
Blank (AC50979-BLK1)											
						Prepared: 03/09/15 Analyzed: 03/10/15					
Mercury	ND	0.020	0.20	mg/kg							U
LCS (AC50979-BS1)											
						Prepared: 03/09/15 Analyzed: 03/10/15					
Mercury	1.02	0.020	0.20	mg/kg	1.00		102	80-120			
Duplicate (AC50979-DUP1)											
						Source: 15C0802-01 Prepared: 03/09/15 Analyzed: 03/10/15					
Mercury	0.120	0.020	0.20	mg/kg		0.135			11.8	20	J
Matrix Spike (AC50979-MS1)											
						Source: 15C0802-01 Prepared: 03/09/15 Analyzed: 03/10/15					
Mercury	1.03	0.020	0.20	mg/kg	1.00	0.135	89.5	60-140			
Matrix Spike (AC50979-MS2)											
						Source: 15C0439-01 Prepared: 03/09/15 Analyzed: 03/10/15					
Mercury	1.08	0.020	0.20	mg/kg	1.00	0.260	82.0	60-140			
Matrix Spike Dup (AC50979-MSD1)											
						Source: 15C0802-01 Prepared: 03/09/15 Analyzed: 03/10/15					
Mercury	1.06	0.020	0.20	mg/kg	1.00	0.135	92.5	60-140	2.87	20	

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15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC51352 - General Preparation											
Blank (AC51352-BLK1) Prepared & Analyzed: 03/14/15											
Chloride	ND	0.60	5.0	mg/kg							U
LCS (AC51352-BS1) Prepared & Analyzed: 03/14/15											
Chloride	98.7	0.60	5.0	mg/kg	100		98.7	90-110			
Duplicate (AC51352-DUP1) Source: 15C0119-02 Prepared & Analyzed: 03/14/15											
Chloride	79.1	0.60	5.0	mg/kg		78.6			0.596	20	
Matrix Spike (AC51352-MS1) Source: 15C0119-02 Prepared & Analyzed: 03/14/15											
Chloride	168	3.0	25	mg/kg	100	78.6	89.1	80-120			
Matrix Spike (AC51352-MS2) Source: 15C0119-16 Prepared & Analyzed: 03/14/15											
Chloride	175	3.0	25	mg/kg	100	88.8	85.9	80-120			
Matrix Spike Dup (AC51352-MSD1) Source: 15C0119-02 Prepared & Analyzed: 03/14/15											
Chloride	169	3.0	25	mg/kg	100	78.6	90.3	80-120	0.713	20	

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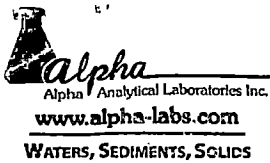
Calif. Dept. of Parks & Rec. - Carnegie SVRA
15751 Tesla Road
Livermore CA, 94550

Project: Storm Water Monitoring
Project Number: Metals
Project Manager: Tara deSilva

Reported:
03/18/15 09:05

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



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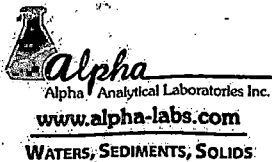
Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No **15C0119** Pg 1 of 2

Signature below authorizes work under terms stated on reverse side.

Report to		Invoice to (if different)					Project Information												Analysis Request												TAT		Temp. upon Receipt °C																					
Company: Carnegie SVRA		Contact:					Project ID: Stormwater (metals)				Total Number of Containers per Sample ID Metals (note 2) - Per David P - Analytical Analysis for samples will be total lead, chloride 300.0 Soil + Hg Total CVAA 7471-LQ								Standard 10 days <input type="radio"/>		Ukiah temp: 46																																	
Attn: Tara de Silva		Email address:					Project No:												RUSH: 5 days <input type="radio"/>		Dublin temp:																																	
Address: 15751 Tesla Road Livermore, CA 94550		Address:					PO Number:												48 hours <input type="radio"/>		Elk Grove temp:																																	
Phone/Fax: (925) 455-7873		Phone/Fax:																	Other: ____ days <input type="radio"/>																																			
Email Address: tara.desilva@parks.ca.gov																																																						
Field Sampler - Printed Name & Signature:							Container			Preservative			Matrix			Sample Notes or CDPH Source Numbers: 200.7 dissolved metals: Aluminum, cadmium, chromium, copper, lead, iron, mercury, chloride, & zinc.																																						
Sample Identification		Sampling		40ml Vial			Poly			Glass			Sleeve															Other			HCl			HNO3			H2SO4			Other			None			Water			Soil			Other		
		Date		Time																																																		
T2		2/26		0836					X																												X			X														
Tesla Boundary				0749					X																												X			X														
Roadside				1618					X																												X			X														
M5				1040					X																												X			X														
T1				0831					X																												X			X														
M4				1054					X																												X			X														
KLN Out				1542					X																												X			X														
KLN In				1536					X																		X			X																								
CHC Out				1549					X																		X			X																								
Tyson's Out		2/26		1143					X																		X			X																								
Relinquished by		Received by					Date		Time		CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No																																											
<i>J. Campbell</i>		<i>[Signature]</i>					2/2/15		1130		State System Number: _____																																											
<i>[Signature]</i>		<i>[Signature]</i>					3-2-15		2010		If "Y" please enter the Source Number(s) in the column above																																											
1179		1179					3-2-15		2250		CA Geotracker EDF Report? <input type="radio"/> Yes <input type="radio"/> No																																											
											Global ID: _____ Sampling Company Log Code: _____																																											
											EDF to (Email Address): _____																																											
											Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____																																											



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Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No **15C0119** Pg **2** of **2**

Report to		Invoice to (if different)		Project Information			Signature below authorizes work under terms stated on reverse side																																																															
Company:		Contact:		Project ID:			<table border="1"> <thead> <tr> <th colspan="10">Analysis Request</th> <th colspan="2">TAT</th> <th colspan="2">Temp upon Receipt °C</th> </tr> </thead> <tbody> <tr> <td colspan="10" rowspan="4"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Total Number of Containers per Sample ID Metals (note on page 1) </div> </td> <td colspan="2">Standard 10 days</td> <td colspan="2">Ukiah temp:</td> </tr> <tr> <td colspan="2">RUSH: 5 days</td> <td colspan="2">Dublin temp:</td> </tr> <tr> <td colspan="2">48 hours</td> <td colspan="2">Elk Grove temp:</td> </tr> <tr> <td colspan="2">Other: ____ days</td> <td colspan="2">Elk Grove temp:</td> </tr> <tr> <td colspan="12">Lab preapproval required</td> <td colspan="2">Sample Notes or CDPH Source Numbers:</td> </tr> </tbody> </table>										Analysis Request										TAT		Temp upon Receipt °C		<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Total Number of Containers per Sample ID Metals (note on page 1) </div>										Standard 10 days		Ukiah temp:		RUSH: 5 days		Dublin temp:		48 hours		Elk Grove temp:		Other: ____ days		Elk Grove temp:		Lab preapproval required												Sample Notes or CDPH Source Numbers:	
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Phone/Fax:		Phone/Fax:																																																																				
Email Address:																																																																						
Field Sampler - Printed Name & Signature:				Container			Preservative			Matrix																																																												
Sample Identification		Sampling		40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other																																																						
		Date	Time																																																																			
Carrol In		2/26	1603			X							X	X			2	X	* See note on page 1 *																																																			
Fdn 3		2/26	1516			X							X	X			2	X																																																				
Tyson's In		2/26	1132			X							X	X			2	X																																																				
CHC In		2/26	1120			X							X	X			2	X																																																				
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Carrol Out		2/26	1611			X							X	X			2	X																																																				
Relinquished by				Received by				Date	Time	CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No																																																												
[Signature]				[Signature]				3/2/15	1130	State System Number: _____																																																												
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										Global ID: _____ Sampling Company Log Code: _____																																																												
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