Sierra Institute for Community and Environment
P.O. Box 11, 4438 Main Street
Taylorsville, CA 95983
Attention: Camille Swezy

November 2018
(revised February 2019)

Project: **CRESCENT MILLS INDUSTRIAL SITE**
15690 CALIFORNIA HIGHWAY 89
CRESCENT MILLS, CALIFORNIA

Summary of On-site Fill Investigation Results for Crescent Mills Industrial Site

Dear Ms. Swezy:

Sierra Streams Institute (SSI) has prepared this summary report documenting the results of an additional soil investigation to identify potential on-site sources of fill at the Crescent Mills Industrial Site located at 15690 California Highway 89 in Crescent Mills, California. The investigation was conducted in order to supplement the results of previous Site investigations including the Targeted Site Investigation ("TSI") conducted by (Geosyntec, 2017) and Southern Area Site Characterization (SSI, 2018). For Site background information, sampling methodology and other information, please refer to the previous reports. Soil sampling frequency and analysis was performed in general accordance with DTSC's Clean Fill Advisory (DTSC, 2001).

This report presents the following attachments documenting the results of the investigation:

- Trench Location Map
- Trench Log Summary
- Tables 1-4 Onsite Fill Investigation Soil Sample Analytical Results
- NV5 Summary Report of Geotechnical Soil Analysis
- Exelchem Report of Analytical Laboratory Results for TPH-D, Dioxins and Furans and Semi Volatile Organic Compounds
- Advanced Technology Laboratory Report for Title 22 Metals

Field Activities

The soil investigation was conducted on June 28 and 29, 2018. Eight shallow trenches (T1-T-8) were advanced using a track mounted excavator along the eastern edge of the site where no subsurface contamination has been documented other than above ground wood waste stockpiles. Trenches were advanced into existing soil or compacted fill,

after the above ground wood waste stockpiles were removed (Trenches T-1, T-2 and T-3) or after all near surface organic debris was removed. Trenches were excavated to depths of approximately 5 to 6 feet below ground surface ("bgs")[1]. Observations of trench spoils and sidewalls identified three general soil types: an Upper Fill (sample prefix F1; approximately 0 to 2 feet bgs), Lower Fill (F2; approximately 2 to 3.5 feet bgs) and Native Soil (N; approximately 3 to 6 feet bgs). Groundwater was encountered in one trench (T-2). Groundwater in trench T-2 stabilized at a depth of 5.5 feet bgs. Significant organic material was not observed in the trench spoils of sidewalls other than limited surface accumulations.

Geotechnical Soil Sampling and Analysis

Representative bulk soil samples were obtained from trench sidewall spoils and composited to form a representative sample from each of the three potential fill types (Upper fill- F1, Lower Fill- F2 and Native Soil- N). Bulk samples were analyzed at a geotechnical soil laboratory for Sieve analysis. The fine grained fraction of each sample was analyzed for Atterberg indices.

Environmental Soil Sampling and Analysis

Representative discrete soil samples were obtained from each of the three soil types (F1, F2 and N) in trenches T-2 through T-8. Samples were composited each soil type exposed in the trench sidewalls into plastic bags, mixed thoroughly and placed in laboratory supplied glass soil jars. Samples were initially screened by SSI and EPA staff using a handheld X-ray fluorescent (XRF) analyzer to provide initial quantification of total arsenic. XRF arsenic concentrations were to compare with the site specific background screening level (9.8 milligrams per kilogram ("mg/kg")). Based on the XRF results, soil from Trench T1 was eliminated from consideration as a fill source due to elevated arsenic concentrations (up to 22.71 mg/kg +/- 5.34 mg/kg) exceeding the site specific background screening level of 9.8 mg/kg. XRF sample results were utilized for screening purposes only since the error range was significantly higher than applicable EPA analytical methodology. XRF results are not included in this report but are available upon request.

All other discrete samples were analyzed for previously detected site primary Constituents of Concern (COCs) identified in the TSI (Geosyntec, 2017) including Title 22 Metals by EPA 6010A/7471B and TPH-diesel (TPH-d) by EPA 8015M. Three and four point composite samples were analyzed for other potential site COCs where only low detections on non-detect results had been obtained in previous investigations. These analyses included Dioxins and Furans by EPA Method 1613/8290 and polycyclic aromatic hydrocarbons ("PAHs") and pentachlorophenol ("PCP") by EPA Method 8270.

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[1] Sampling depths for previous soil samples, collected by Geosyntec in the area of the T-1 to T-3 trenches, used the top of the above ground wood waste stockpiles as the reference point for ground surface (Geosyntec, 2017). These above ground wood waste stockpiles range from 6 to 8 feet in height above surrounding ground surface.

Samples were composited by the analytical laboratory from discrete samples as follows:

Composite Sample	Discrete Samples
Comp 1:	T2-F1, T3-F1, T4-F1
Comp 2:	T5-F1, T6-F1, T7-F1, T8-F1
Comp 3:	T2-F2, T3-F2, T4-F2
Comp 4:	T5-F2, T6-F2, T7-F2, T8-F2
Comp 5:	T2-N, T3-N, T4-N
Comp 6:	T5-N, T6-N, T7-N, T8-N

Results and Discussion

Geotechnical Sample Results

Geotechnical laboratory results indicate the following soil types: the Upper Fill (F1) consisted of well graded gravel with silt and sand, the Lower Fill (F2) consisted of poorly graded gravel with silt and sand and the native soil (N) consisted of silty sand with gravel. Fine grained soil from each soil type consisted of lean silt (ML). Based on these results, all three soil types would likely be acceptable from for use as on-site fill. Geotechnical laboratory results should be evaluated by the Geotechnical Engineering firm preparing final grading plans for the project. The Geotechnical Soil Sample Report is attached.

Analytical Laboratory Results

Analytical laboratory results for all samples obtained from Trenches T2 through T-8 indicate no COCs were detected at concentrations exceeding applicable screening levels or the site specific background concentration for arsenic (9.8 mg/kg). Composite sample results were all less than 1/3 of applicable screening levels for the three point composites and less than ¼ of screening levels for four point composites, indicating no discrete samples exceed screening levels. Analytical laboratory results are summarized in Tables 1-4. Laboratory Reports are attached.

Conclusions

SSI conducted an on-site fill investigation in June 2018 to identify potential sources of on-site fill to be used during Site remediation or redevelopment. Eight trenches were advanced along the eastern portion of the Site in areas assumed to be outside areas of previous lumber mill operations. The investigation was performed to identify soil in general accordance with DTSC's Clean Fill Advisory (DTSC, 2001). Results of samples obtained from seven of the eight trenches (T2-T-8) indicated no COCs were detected above applicable remedial goals.

Recommendations for On-Site Borrow Area

Based on an evaluation of the results of the on-site fill investigation summarized above, subsurface soil situated above groundwater (approximately 5 feet bgs) in the vicinity of trenches T-2 through T-8 could be used as a source of on-site fill during proposed site remediation activities. Based on discussions with the Project Engineer, a proposed borrow area is presented on Figure 1. Based on the recommended sampling frequency in the DTSC Clean Fill Guidance document (2 acres or less; minimum of 4 soil samples), the 4 samples obtained from each soil type from trenches T-2 through T-5, (12 samples) located within the proposed (less than 2 acre) borrow area would be an acceptable sampling frequency. If additional borrow area is proposed, the expanded borrow area should extend to the south to areas characterized by acceptable trench samples from trenches T-6 though T-8.

The two wood waste stockpiles located within the proposed borrow area which are identified as DU-16 and DU-17 in the Draft RAW, should be excavated and relocated to the southern area of the site prior to excavation of borrow soil as described in the Draft RAW. Additional soil sampling of the upper fill (F1) beneath stockpile DU-17 should be performed prior to borrow excavation. Samples should be analyzed for Title 22 metals including total and if warranted soluble arsenic and copper. Results should be compared with site screening levels. No borrow excavation shall occur in this area if soil samples exceed screening levels.

Additional soil characterizations is also recommended if an expanded borrow area is proposed which extends to the north or west of the proposed borrow area shown on Figure 1 or if the borrow area is extended to encroach on the former log deck recycling pond in the southern portion of the site.

The preceding information has been provided for engineering and environmental review and planning purposes. Additional information and reporting can be provided upon request. For more information please contact the undersigned.

Sincerely,

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cc. US EPA Region 9 attn. Eric Byous

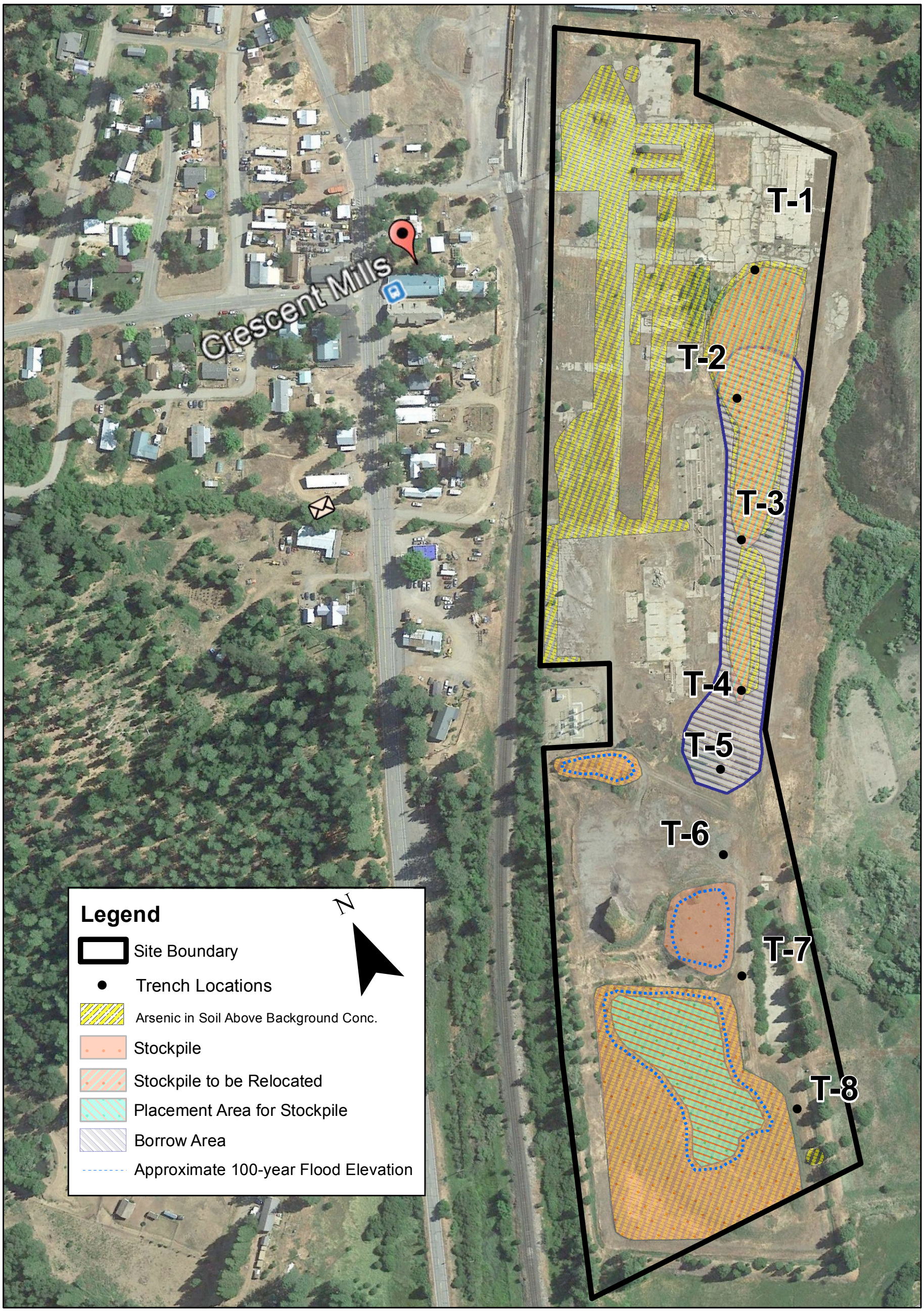

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Figure 1
Trench Locations and Proposed Borrow Area
On Site Fill Invesitgation

Crescent Mills Industrial Site
Crescent Mills, CA

0 125 250 500 Feet

Table 1
Onsite Fill Investigation Soil Sample Analytical Results- Title 22 Metals in Soil

Sample ID	Sample Location	Sample Depth (ft. bgs)	Sample Type	Matrix	Date Sampled	Metals (U.S. EPA 6010B/7471A) (mg/kg)							
						Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper
T2-F1	Trench 2	0- 2’	Discreet	Soil	6/28/2018	<2.0	4.3	64	<1.0	<1.0	11	6.6	93
T2-F2	Trench 2	2-3.5’	Discreet	Soil	6/28/2018	<2.0	6.4	55	<1.0	<1.0	12	8.3	60
T2-N	Trench 2	3-4.5’	Discreet	Soil	6/28/2018	<2.0	3.3	110	<1.0	<1.0	4.7	5.6	30
T3-F1	Trench 3	0-1.5’	Discreet	Soil	6/28/2018	<2.0	4.5	64	<1.0	<1.0	8.9	9.3	190
T3-F2	Trench 3	2-3’	Discreet	Soil	6/28/2018	<2.0	3.2	61	<1.0	<1.0	5.3	6.4	63
T3-N	Trench 3	3-4.5’	Discreet	Soil	6/28/2018	<4.0	<2.0	400	<1.0	<1.0	<2.0	5.2	11
T4-F1	Trench 4	0-2’	Discreet	Soil	6/28/2018	<2.0	4.1	73	<1.0	<1.0	7.6	11	78
T4-F2	Trench 4	2-3.5’	Discreet	Soil	6/28/2018	<4.0	<2.0	300	<1.0	<1.0	2.2	8.0	24
T4-N	Trench 4	4-5’	Discreet	Soil	6/28/2018	<2.0	<1.0	170	<1.0	<1.0	7.2	8.9	13
T5-F1	Trench 5	0.5-1.5’	Discreet	Soil	6/28/2018	<2.0	1.3	120	<1.0	<1.0	15	6.6	2.5
T5-F2	Trench 5	1.5-2.5’	Discreet	Soil	6/28/2018	<2.0	<1.0	68	<1.0	<1.0	31	7.4	32
T5-N	Trench 5	3.5-4.5’	Discreet	Soil	6/28/2018	<4.0	<2.0	330	<2.0	<2.0	<2.0	5.6	7.6
T6-F1	Trench 6	0.5-2’	Discreet	Soil	6/28/2018	<2.0	2.2	150	<1.0	<1.0	17	8.3	29
T6-F2	Trench 6	2-3.5’	Discreet	Soil	6/28/2018	<2.0	4.5	98	<1.0	<1.0	18	8.4	88
T6-N	Trench 6	3.5-4.5’	Discreet	Soil	6/28/2018	<4.0	<2.0	320	<2.0	<2.0	2.1	7.5	16
T7-F1	Trench 7	0.5-2’	Discreet	Soil	6/28/2018	<2.0	6.2	51	<1.0	<1.0	14	9.0	270
T7-F2	Trench 7	2-4’	Discreet	Soil	6/28/2018	<2.0	1.6	85	<1.0	<1.0	25	7.4	45
T7-N	Trench 7	4-5’	Discreet	Soil	6/28/2018	<4.0	<2.0	57	<2.0	<2.0	4.9	8.5	15
T8-F1	Trench 8	0-1.5’	Discreet	Soil	6/28/2018	<2.0	2.9	68	<1.0	<1.0	18	7.3	55
T8-F2	Trench 8	1.5-3’	Discreet	Soil	6/28/2018	<2.0	1.7	71	<1.0	<1.0	21	6.7	33
T8-N	Trench 8	3-4.5’	Discreet	Soil	6/28/2018	<2.0	1.2	69	<1.0	<1.0	19	7.2	36
HHRA SL						--	0.36	--	210	7.3	--	--	--
RSL						470	--	220,000	--	--	1,800,000	350	47,000
Site specific background							9.8						

Table 1-Cont.
Onsite Fill Investigation Soil Sample Analytical Results- Title 22 Metals in Soil

Sample ID	Sample Location	Sample Depth (ft. bgs)	Sample Type	Matrix	Date Sampled	Metals (U.S. EPA 6010B/7471A) (mg/kg)								
						Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
T2-F1	Trench 2	0- 2’	Discreet	Soil	6/28/2018	8.2	0.16	<1.0	8.8	<1.0	<1.0	<1.0	32	47
T2-F2	Trench 2	2-3.5’	Discreet	Soil	6/28/2018	5.4	0.11	<1.0	9.0	<1.0	<1.0	<1.0	39	39
T2-N	Trench 2	3-4.5’	Discreet	Soil	6/28/2018	2.7	0.11	<1.0	2.9	<1.0	<1.0	<1.0	23	23
T3-F1	Trench 3	0-1.5’	Discreet	Soil	6/28/2018	4.2	0.57	1.2	8.0	<1.0	<1.0	<1.0	47	47
T3-F2	Trench 3	2-3’	Discreet	Soil	6/28/2018	3.6	<0.10	<1.0	3.6	<1.0	<1.0	<1.0	34	32
T3-N	Trench 3	3-4.5’	Discreet	Soil	6/28/2018	<2.0	<0.10	<1.0	<2.0	<1.0	<2.0	<1.0	8.6	12
T4-F1	Trench 4	0-2’	Discreet	Soil	6/28/2018	9.6	0.15	<1.0	12	<1.0	<1.0	<1.0	30	45
T4-F2	Trench 4	2-3.5’	Discreet	Soil	6/28/2018	<2.0	<0.10	<2.0	<2.0	<2.0	<2.0	<2.0	13	18
T4-N	Trench 4	4-5’	Discreet	Soil	6/28/2018	<1.0	0.10	<1.0	4.3	<1.0	<1.0	<1.0	38	23
T5-F1	Trench 5	0.5-1.5’	Discreet	Soil	6/28/2018	2.5	<0.10	<1.0	7.6	<1.0	<1.0	<1.0	34	24
T5-F2	Trench 5	1.5-2.5’	Discreet	Soil	6/28/2018	3.0	0.15	<1.0	16	<1.0	<1.0	<1.0	48	27
T5-N	Trench 5	3.5-4.5’	Discreet	Soil	6/28/2018	<2.0	<0.10	<2.0	<2.0	<2.0	<2.0	<2.0	11	15
T6-F1	Trench 6	0.5-2’	Discreet	Soil	6/28/2018	2.4	0.11	<1.0	9.1	<1.0	<1.0	<1.0	34	25
T6-F2	Trench 6	2-3.5’	Discreet	Soil	6/28/2018	11	0.28	<1.0	11	<1.0	<1.0	<1.0	43	50
T6-N	Trench 6	3.5-4.5’	Discreet	Soil	6/28/2018	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	21	18
T7-F1	Trench 7	0.5-2’	Discreet	Soil	6/28/2018	9.6	0.22	<1.0	15	<1.0	<1.0	<1.0	32	47
T7-F2	Trench 7	2-4’	Discreet	Soil	6/28/2018	2.9	<0.10	<1.0	14	<1.0	<1.0	<1.0	41	25
T7-N	Trench 7	4-5’	Discreet	Soil	6/28/2018	2.1	<0.10	<2.0	2.3	<2.0	<2.0	<2.0	38	33
T8-F1	Trench 8	0-1.5’	Discreet	Soil	6/28/2018	3.5	<1.0	<1.0	10	<1.0	<1.0	<1.0	40	31
T8-F2	Trench 8	1.5-3’	Discreet	Soil	6/28/2018	2.3	<0.10	<1.0	11	<1.0	<1.0	<1.0	37	23
T8-N	Trench 8	3-4.5’	Discreet	Soil	6/28/2018	2.5	<1.0	<1.0	10	<1.0	<1.0	<1.0	36	24
HHRA SL						320	4.5	--	--	--	1,500	--	1,000	--
RSL						--	--	5,800	3,100	5,800	--	1.2	--	350,000

Table 2
Onsite Fill Investigation Soil Sample Analytical Results- Hydrocarbons in Soil

Sample ID	Sample Location	Sample Depth (ft. bgs)	Sample Type	Matrix	Date Sampled	TPH U.S. EPA Method 8015M (mg/kg)
						THP as Diesel
T2-F1	Trench 2	0- 2’	Discreet	Soil	6/28/2018	<1.00
T2-F2	Trench 2	2-3.5’	Discreet	Soil	6/28/2018	<1.00
T2-N	Trench 2	3-4.5’	Discreet	Soil	6/28/2018	<1.00
T3-F1	Trench 3	0-1.5’	Discreet	Soil	6/28/2018	<1.00
T3-F2	Trench 3	2-3’	Discreet	Soil	6/28/2018	7.81
T3-N	Trench 3	3-4.5’	Discreet	Soil	6/28/2018	<1.00
T4-F1	Trench 4	0-2’	Discreet	Soil	6/28/2018	<1.00
T4-F2	Trench 4	2-3.5’	Discreet	Soil	6/28/2018	<1.00
T4-N	Trench 4	4-5’	Discreet	Soil	6/28/2018	<1.00
T5-F1	Trench 5	0.5-1.5’	Discreet	Soil	6/28/2018	<1.00
T5-F2	Trench 5	1.5-2.5’	Discreet	Soil	6/28/2018	<1.00
T5-N	Trench 5	3.5-4.5’	Discreet	Soil	6/28/2018	<1.00
T6-F1	Trench 6	0.5-2’	Discreet	Soil	6/28/2018	<1.00
T6-F2	Trench 6	2-3.5’	Discreet	Soil	6/28/2018	<1.00
T6-N	Trench 6	3.5-4.5’	Discreet	Soil	6/28/2018	5.81
T7-F1	Trench 7	0.5-2’	Discreet	Soil	6/28/2018	<1.00
T7-F2	Trench 7	2-4’	Discreet	Soil	6/28/2018	<1.00
T7-N	Trench 7	4-5’	Discreet	Soil	6/28/2018	<1.00
T8-F1	Trench 8	0-1.5’	Discreet	Soil	6/28/2018	<1.00
T8-F2	Trench 8	1.5-3’	Discreet	Soil	6/28/2018	<1.00
T8-N	Trench 8	3-4.5’	Discreet	Soil	6/28/2018	7.85
ESL						880

Table 3
Onsite Fill Investigation Soil Sample Analytical Results- PAHs, TCP & PCP in Soil

Sample ID	Sample Type	Composite Sample Aliquots	Matrix	Date Sampled	PAHs U.S. EPA Method 8270 SIM (µg/kg)						PCP U.S. EPA Method 8270 (µg/kg)
					Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Dibenz(a,h)anthracene	Fluorene	Indeno(1,2,3-cd)pyrene	Pentachlorophenol
Comp 1	3pt composite	T2-F1, T3-F1, T4-F1	Soil	6/28/2018	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.017	<0.35
Comp 2	4pt composite	T5-F1, T6-F1, T7-F1, T8-F1	Soil	6/28/2018	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.017	<0.35
Comp 3	3pt composite	T2-F2, T3-F2, T4-F2	Soil	6/28/2018	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.017	<0.35
Comp 4	4pt composite	T5-F2, T6-F2, T7-F2, T8-F2	Soil	6/28/2018	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.017	<0.35
Comp 5	3pt composite	T2-N, T3-N, T4-N	Soil	6/28/2018	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.017	<0.35
Comp 6	4pt composite	T5-N, T6-N, T7-N, T8-N	Soil	6/28/2018	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.017	<0.35
RSL					290						4,000
ESL					1.6						

Table 4
Onsite Fill Investigation Soil Sample Analytical Results- Dioxins and Furans in Soil

Sample ID	Dioxins and Furans (U.S. EPA Method 8290) (pg/g)															
	1,2,3,7,8-PeCDD	1,2,3,7,8-PeCDF	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDD TEQ	2,3,7,8-TCDF	OCDD	OCDF	Total HpCDD	Total HpCDF	Total HxCDD	Total HxCDF	Total PeCDD	Total PeCDF	Total TCDD	Total TCDF
Comp 1	<2.50	<2.50	<2.50	<2.50	0.768	1.98	623	33.4	330	103	92.2	118	-	37.4	0.768	13.5
Comp 2	<2.50	<2.50	<2.50	<2.50	<0.500	<0.500	21.5	<5.00	10.3	-	-	2.03	-	-	-	-
Comp 3	<2.50	<2.50	<2.50	<2.50	<0.500	<0.500	57.8	<5.00	16.1	6.4	-	1.27	-	-	-	-
Comp 4	<2.50	<2.50	<2.50	<2.50	<0.500	<0.500	102	7.12	55.7	20.4	17.8	17.5	-	4.10	-	-
Comp 5	<2.50	<2.50	<2.50	<2.50	<0.500	<0.500	28.2	<5.00	8.15	-	-	-	-	-	-	-
Comp 6	<2.50	<2.50	<2.50	<2.50	<0.500	<0.500	36.8	<5.00	6.31	-	-	-	-	-	-	-
ESL					150											

Notes

ESL = Environmental Screening Level
U.S. EPA = United States Environmental Protection Agency
RSL = Regional Screening Levels US EPA Region 9 (2015)
Human Health Risk Assessment Screening Levels (HHRA SL) Note 3 - DTSC, revised 2018 for commercial/industrial soil. HHRA screening levels applied when available.
ft bgs = feet below ground surface
< = Analyte not detected. Method Detection Limits shown.
- = Not Analyzed
NA = not applicable
mg/kg = milligrams per kilograms
pg/g = picograms per gram

PAHs = polycyclic aromatic hydrocarbons
PCP = pentachlorophenol
TCP = 2,4,6-trichlorophenol
TPH = total petroleum hydrocarbons
VOCs = volatile organic compounds
PeCDD = pentachlorodibenzo-p-dioxin
PeCDF = pentachlorodibenzofuran
TCDD = tetrachlorodibenzo-p-dioxin
TCDF = tetrachlorodibenzofuran
OCDF = 1,2,3,4,6,7,8,9-octachlorodibenzofuran
OCDD = 1,2,3,4,6,7,8,9-octachlorodibenzodioxin
HxCDF = hexachlorodibenzofuran
HxCDD = hexachlorodibenzo-p-dioxin
2,3,7,8-TCDD TEQ = 2,3,7,8-tetrachlorodibenzo-p-dioxin Toxic Equivalency
HpCDD = heptachlorodibenzo-p-dioxin

HxCDD = hexachlorodibenzo-p-dioxin
HxCDF = hexachlorodibenzofuran
PAHs = polycyclic aromatic hydrocarbons
OCDD = 1,2,3,4,6,7,8,9-octachlorodibenzodioxin
OCDF = 1,2,3,4,6,7,8,9-octachlorodibenzofuran
PeCDD = pentachlorodibenzo-p-dioxin
PeCDF = pentachlorodibenzofuran
pg/g = picograms per gram
REC = recognized environmental condition
TCDD = tetrachlorodibenzo-p-dioxin
TCDF = tetrachlorodibenzofuran
HpCDD = heptachlorodibenzo-p-dioxin
HpCDF = heptachlorodibenzofuran
TEQ = toxic equivalency quotient
HpCDF = heptachlorodibenzofuran

Crescent Mills Industrial Site

On-Site Fill Investigation

June 28-29, 2018

Trench Logs

Trench T-1

0-2'- Upper Fill: Strong brown well graded GRAVEL with silt and sand

2.0-3.5'- Lower Fill: Strong Brown poorly graded SAND GRAVEL mix with silt

3.5-4.5' Native Soil: Olive yellow to Olive Silty SAND with Gravel

4.5->5' Native Soil: Strong Brown poorly graded GRAVEL with sand and silt

No groundwater encountered. Stained soil with anoxic odor at 4 to 4.5'

Total Depth Trench= 5 feet

Trench T-2

0-1.75'- Upper Fill: Strong brown well graded GRAVEL with silt and sand

1.75-3.5'- Lower Fill: Strong Brown poorly graded GRAVEL with sand and silt

3.5->6'- Native Soil: Olive Yellow Silty SAND with Gravel

Groundwater encountered at 6 feet- static WL stabilized at 5.5' bgs

Total Depth Trench=6'

Trench T-3

0-1.75'- Upper Fill: Strong brown well graded GRAVEL with silt and sand

1.75-3.0'- Lower Fill: Brown poorly graded GRAVEL and SAND with silt

3.0'-4.5'- Native Soil: Olive Yellow silty SAND with Gravel

3.0'->5.5'- Native Soil: Olive gravely, silty SAND, anoxic odor

No Groundwater encountered in trench

Total Depth Trench=5.5'

Trench T-4

0-2’- Upper Fill: Strong brown well graded GRAVEL with silt and sand

2-3.75’- Lower Fill: Strong Brown poorly graded GRAVEL and SAND with silt

3.75->5.5’- Native Soil: Olive Yellow silty SAND with Gravel

No Groundwater encountered in trench

Total Depth Trench=5.5’

Trench T-5

0-1.25’: Organic Fill; decomposed wood waste and organic soil

1.25-2.75- Upper Fill: Grey brown well graded GRAVEL with silt and sand

2.75-3.5’- Lower Fill: Grey Brown poorly graded GRAVEL and SAND with silt

3.5->6’- Native Soil: Olive Yellow silty SAND with Gravel

No Groundwater encountered in trench

Total Depth Trench=6’

Trench T-6

0-1’- Organic Fill; decomposed wood waste and organic soil with gravel

1-3.5’- Upper Fill: Grey brown well graded GRAVEL with silt and sand

3.5->6’- Native Soil: Strong Brown silty SAND with Gravel

No Groundwater encountered in trench

Total Depth Trench=6’

Trench T-7

0-0.5’- Organic Fill; decomposed wood waste and organic soil

0.5-4.0’- Upper Fill: Strong brown well graded GRAVEL with silt and sand

4.0->5.5’- Native Soil: Olive Yellow silty SAND with Gravel

No Groundwater encountered in trench

Total Depth Trench=5.5’

Trench T-8

0-0.5 to 1’- Organic Fill; decomposed wood waste and organic soil

1-3.0’- Upper Fill: Strong brown well graded GRAVEL with silt and sand

3.0-4.0’- Lower Fill: Strong Brown poorly graded GRAVEL and SAND with silt

4.0->5.5’- Native Soil: Olive Yellow silty SAND with Gravel

No Groundwater encountered in trench

Total Depth Trench=5.5’

Summary Report

Project No.:	4980.00	Project Name:	Plumas Brownsfield	Date:	7/2/18
Sample No.:	Fill 1	Boring/Trench:	-	Depth, ft.: -	Tested By: NGH
Description:	Strong Brown (7.5YR 4/6) Well Graded Gravel with Silt and Sand			Checked By:	MLH
Sample Location:				Lab. No.:	15-18-266

TEST		METHOD	RESULTS	SPECIFICATIONS
Sieve Analyses			Percent	
Sieve Size Designation:			Passing	
U.S. Standard	Millimeters			
3.0 inch	75	CTM 202	100	
2.0 inch	50		100	
1.5 inch	37.5		97	
1.0 Inch	25.0		86	
3/4 Inch	19.0		72	
1/2 Inch	12.5		55	
3/8 Inch	9.5		47	
#4	4.8		36	
#10	2.00		28	
#20	0.85		21	
#40	0.425		15	
#60	0.25		11	
#100	0.15		8	
#200	0.075		6.3	
Resistance Value		CTM 301	-	
Sand Equivalent		CTM 217	-	
Durability, fine		CTM 229	-	
Durability, course		CDOT-229	-	

ADDITIONAL INFORMATION / RESULTS

TEST	METHOD	RESULTS	SPECIFICATIONS: Operating Range	SPECIFICATIONS: Contract Compliance
Unit Weight of Aggregate (pcf):	ASTM C-29	-		
Maximum Dry Density (pcf):	ASTM D-1557	-		
Optimum Moisture (%):	ASTM D-1557	-		
Clay Lumps & Friable Particles:	ASTM C-142	-		
Clay Lumps & Friable Particles:	ASTM C-142	-		
Cleanness of Course Aggregate	CTM 227	-		
Percent Crushed Particles (%):	CDOT-205	-		
Bulk Specific Gravity of Fine Aggregate:	ASTM C-128	-		
Absorption (%):	ASTM C-128	-		
Coefficient of Uniformity (Cu):	ASTM D-2487	80.00		
Coefficient of Curvature (Cc):	ASTM D-2487	1.95		
Fineness Modulus (FM):	ASTM C-136	-		
Atterberg Indices - Classification	ASTM D-4318	ML		
Atterberg Indices - PI	ASTM D-4318	1		

Summary Report

Project No.:	4980.00	Project Name:	Plumas Brownsfield	Date:	7/2/18
Sample No.:	Fill 2	Boring/Trench:	-	Depth, ft.: -	Tested By: NGH
Description:	Very Dark Brown (7.5YR 3/2) Poorly Graded Gravel with Silt and Sand			Checked By:	MLH
Sample Location:				Lab. No.:	15-18-266

TEST		METHOD	RESULTS	SPECIFICATIONS
Sieve Analyses			Percent	
Sieve Size Designation:			Passing	
U.S. Standard	Millimeters			
3.0 inch	**75**	CTM 202	**100**	
2.0 inch	**50**		**94**	
1.5 inch	**37.5**		**86**	
1.0 Inch	**25.0**		**80**	
3/4 Inch	**19.0**		**74**	
1/2 Inch	**12.5**		**57**	
3/8 Inch	**9.5**		**48**	
#4	**4.8**		**35**	
#10	**2.00**		**26**	
#20	**0.85**		**19**	
#40	**0.425**		**13**	
#60	**0.25**		**10**	
#100	**0.15**		**8**	
#200	**0.075**		**5.7**	
Resistance Value		CTM 301	-	
Sand Equivalent		CTM 217	-	
Durability, fine		CTM 229	-	
Durability, course		CDOT-229	-	

ADDITIONAL INFORMATION / RESULTS

TEST	METHOD	RESULTS	SPECIFICATIONS: Operating Range	SPECIFICATIONS: Contract Compliance
Unit Weight of Aggregate (pcf):	ASTM C-29	-		
Maximum Dry Density (pcf):	ASTM D-1557	-		
Optimum Moisture (%):	ASTM D-1557	-		
Clay Lumps & Friable Particles:	ASTM C-142	-		
Clay Lumps & Friable Particles:	ASTM C-142	-		
Cleanness of Course Aggregate	CTM 227	-		
Percent Crushed Particles (%):	CDOT-205	-		
Bulk Specific Gravity of Fine Aggregate:	ASTM C-128	-		
Absorption (%):	ASTM C-128	-		
Coefficient of Uniformity (Cu):	ASTM D-2487	**64.38**		
Coefficient of Curvature (Cc):	ASTM D-2487	**3.02**		
Fineness Modulus (FM):	ASTM C-136	-		
Atterberg Indices - Classification	ASTM D-4318	**ML**		
Atterberg Indices - PI	ASTM D-4318	**NP**		

Summary Report

Project No.:	4980.00	Project Name:	Plumas Brownsfield	Date:	7/2/18
Sample No.:	Native	Boring/Trench:	-	Depth, ft.: -	Tested By: NGH
Description:	Olive Yellow (2.5Y 6/6) Silty Sand with Gravel			Checked By:	MLH
Sample Location:				Lab. No.:	15-18-266

TEST		METHOD	RESULTS	SPECIFICATIONS
Sieve Analyses			Percent	
Sieve Size Designation:			Passing	
U.S. Standard	Millimeters			
3.0 inch	75	CTM 202	100	
2.0 inch	50		100	
1.5 inch	37.5		99	
1.0 Inch	25.0		96	
3/4 Inch	19.0		92	
1/2 Inch	12.5		85	
3/8 Inch	9.5		80	
#4	4.8		71	
#10	2.00		63	
#20	0.85		52	
#40	0.425		39	
#60	0.25		31	
#100	0.15		26	
#200	0.075		21.7	
Resistance Value		CTM 301	-	
Sand Equivalent		CTM 217	-	
Durability, fine		CTM 229	-	
Durability, course		CDOT-229	-	

ADDITIONAL INFORMATION / RESULTS

TEST	METHOD	RESULTS	SPECIFICATIONS: Operating Range	SPECIFICATIONS: Contract Compliance
Unit Weight of Aggregate (pcf):	ASTM C-29	-		
Maximum Dry Density (pcf):	ASTM D-1557	-		
Optimum Moisture (%):	ASTM D-1557	-		
Clay Lumps & Friable Particles:	ASTM C-142	-		
Clay Lumps & Friable Particles:	ASTM C-142	-		
Cleanness of Course Aggregate	CTM 227	-		
Percent Crushed Particles (%):	CDOT-205	-		
Bulk Specific Gravity of Fine Aggregate:	ASTM C-128	-		
Absorption (%):	ASTM C-128	-		
Coefficient of Uniformity (Cu):	ASTM D-2487	-		
Coefficient of Curvature (Cc):	ASTM D-2487	-		
Fineness Modulus (FM):	ASTM C-136	-		
Atterberg Indices - Classification	ASTM D-4318	ML		
Atterberg Indices - PI	ASTM D-4318	3		

ADVANCED TECHNOLOGY LABORATORIES

July 12, 2018

Kyle Leach
Sierra Streams Institute
431 Uren St., Suite C
Nevada City, CA 95959
Tel: (530) 265-6090
Fax:

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1802426
Client Reference : Cresent Mills Industrial Site

Enclosed are the results for sample(s) received on July 05, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T2-F1	1802426-01	Soil	6/28/18 0:00	7/05/18 10:03
T2-F2	1802426-02	Soil	6/28/18 0:00	7/05/18 10:03
T2-N	1802426-03	Soil	6/28/18 0:00	7/05/18 10:03
T3-F1	1802426-04	Soil	6/28/18 0:00	7/05/18 10:03
T3-F2	1802426-05	Soil	6/28/18 0:00	7/05/18 10:03
T3-N	1802426-06	Soil	6/28/18 0:00	7/05/18 10:03
T4-F1	1802426-07	Soil	6/28/18 0:00	7/05/18 10:03
T4-F2	1802426-08	Soil	6/28/18 0:00	7/05/18 10:03
T4-N	1802426-09	Soil	6/28/18 0:00	7/05/18 10:03
T5-F1	1802426-10	Soil	6/28/18 0:00	7/05/18 10:03
T5-F2	1802426-11	Soil	6/28/18 0:00	7/05/18 10:03
T5-N	1802426-12	Soil	6/28/18 0:00	7/05/18 10:03
T6-F1	1802426-13	Soil	6/28/18 0:00	7/05/18 10:03
T6-F2	1802426-14	Soil	6/28/18 0:00	7/05/18 10:03
T6-N	1802426-15	Soil	6/28/18 0:00	7/05/18 10:03
T7-F1	1802426-16	Soil	6/28/18 0:00	7/05/18 10:03
T7-F2	1802426-17	Soil	6/28/18 0:00	7/05/18 10:03
T7-N	1802426-18	Soil	6/28/18 0:00	7/05/18 10:03
T8-F1	1802426-19	Soil	6/28/18 0:00	7/05/18 10:03
T8-F2	1802426-20	Soil	6/28/18 0:00	7/05/18 10:03
T8-N	1802426-21	Soil	6/28/18 0:00	7/05/18 10:03

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T2-F1
Lab ID: 1802426-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Arsenic	**4.3**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Barium	**64**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Chromium	**11**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Cobalt	**6.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Copper	**93**	2.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Lead	**8.2**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Molybdenum	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Nickel	**8.8**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Vanadium	**32**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	
Zinc	**47**	1.0	1	B8G0174	07/10/2018	07/10/18 16:08	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.16**	0.10	1	B8G0178	07/10/2018	07/10/18 15:46	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T2-F2
Lab ID: 1802426-02

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Arsenic	**6.4**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Barium	**55**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Chromium	**12**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Cobalt	**8.3**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Copper	**60**	2.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Lead	**5.4**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Molybdenum	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Nickel	**9.0**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Vanadium	**39**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	
Zinc	**39**	1.0	1	B8G0174	07/10/2018	07/10/18 16:09	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.11**	0.10	1	B8G0178	07/10/2018	07/10/18 15:48	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T2-N
Lab ID: 1802426-03

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Arsenic	**3.3**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Barium	**110**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Chromium	**4.7**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Cobalt	**5.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Copper	**30**	2.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Lead	**2.7**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Molybdenum	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Nickel	**2.9**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Vanadium	**23**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	
Zinc	**23**	1.0	1	B8G0174	07/10/2018	07/10/18 16:11	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.11**	0.10	1	B8G0178	07/10/2018	07/10/18 15:49	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T3-F1
Lab ID: 1802426-04

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Arsenic	**4.5**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Barium	**64**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Chromium	**8.9**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Cobalt	**9.3**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Copper	**190**	2.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Lead	**4.2**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Molybdenum	**1.2**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Nickel	**8.0**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Vanadium	**47**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	
Zinc	**47**	1.0	1	B8G0174	07/10/2018	07/10/18 16:12	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.57**	0.10	1	B8G0178	07/10/2018	07/10/18 15:51	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T3-F2
Lab ID: 1802426-05

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Arsenic	**3.2**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Barium	**61**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Chromium	**5.3**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Cobalt	**6.4**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Copper	**63**	2.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Lead	**3.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Molybdenum	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Nickel	**3.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Vanadium	**34**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	
Zinc	**32**	1.0	1	B8G0174	07/10/2018	07/10/18 16:13	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0178	07/10/2018	07/10/18 15:53	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T3-N
Lab ID: 1802426-06

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	4.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Arsenic	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Barium	**400**	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Beryllium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Cadmium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Chromium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Cobalt	**5.2**	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Copper	**11**	4.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Lead	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Molybdenum	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Nickel	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Selenium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Silver	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Thallium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Vanadium	**8.6**	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5
Zinc	**12**	2.0	2	B8G0174	07/10/2018	07/11/18 09:56	D5

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0178	07/10/2018	07/10/18 15:55	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T4-F1
Lab ID: 1802426-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Arsenic	**4.1**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Barium	**73**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Chromium	**7.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Cobalt	**11**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Copper	**78**	2.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Lead	**9.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Molybdenum	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Nickel	**12**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Vanadium	**30**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	
Zinc	**45**	1.0	1	B8G0174	07/10/2018	07/10/18 16:15	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.15**	0.10	1	B8G0178	07/10/2018	07/10/18 16:01	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T4-F2
Lab ID: 1802426-08

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	4.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Arsenic	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Barium	**300**	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Beryllium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Cadmium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Chromium	**2.2**	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Cobalt	**8.0**	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Copper	**24**	4.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Lead	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Molybdenum	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Nickel	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Selenium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Silver	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Thallium	ND	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Vanadium	**13**	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5
Zinc	**18**	2.0	2	B8G0174	07/10/2018	07/11/18 09:57	D5

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0178	07/10/2018	07/10/18 16:02	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T4-N
Lab ID: 1802426-09

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Arsenic	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Barium	**170**	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Chromium	**7.2**	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Cobalt	**8.9**	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Copper	**13**	2.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Lead	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Molybdenum	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Nickel	**4.3**	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Vanadium	**38**	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	
Zinc	**23**	1.0	1	B8G0174	07/10/2018	07/10/18 16:18	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.10**	0.10	1	B8G0178	07/10/2018	07/10/18 16:04	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T5-F1
Lab ID: 1802426-10

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Arsenic	**1.3**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Barium	**120**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Beryllium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Cadmium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Chromium	**15**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Cobalt	**6.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Copper	**36**	2.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Lead	**2.5**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Molybdenum	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Nickel	**7.6**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Selenium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Silver	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Thallium	ND	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Vanadium	**34**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	
Zinc	**24**	1.0	1	B8G0174	07/10/2018	07/10/18 16:19	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0178	07/10/2018	07/10/18 16:06	

Certificate of Analysis

Sierra Streams Institute	Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C	Report To :	Kyle Leach
Nevada City , CA 95959	Reported :	07/12/2018

Client Sample ID T5-F2
Lab ID: 1802426-11

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Arsenic	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Barium	**68**	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Chromium	**31**	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Cobalt	**7.4**	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Copper	**32**	2.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Lead	**3.0**	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Nickel	**16**	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Vanadium	**48**	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	
Zinc	**27**	1.0	1	B8G0176	07/10/2018	07/10/18 15:11	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.15**	0.10	1	B8G0179	07/10/2018	07/11/18 10:37	

Certificate of Analysis

Sierra Streams Institute	Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C	Report To :	Kyle Leach
Nevada City , CA 95959	Reported :	07/12/2018

Client Sample ID T5-N
Lab ID: 1802426-12

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	4.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Arsenic	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Barium	**330**	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Beryllium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Cadmium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Chromium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Cobalt	**5.6**	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Copper	**7.6**	4.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Lead	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Molybdenum	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Nickel	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Selenium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Silver	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Thallium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Vanadium	**11**	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5
Zinc	**15**	2.0	2	B8G0176	07/10/2018	07/10/18 15:44	D5

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0179	07/10/2018	07/11/18 10:44	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T6-F1
Lab ID: 1802426-13

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Arsenic	**2.2**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Barium	**150**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Chromium	**17**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Cobalt	**8.3**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Copper	**29**	2.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Lead	**2.4**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Nickel	**9.1**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Vanadium	**34**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	
Zinc	**25**	1.0	1	B8G0176	07/10/2018	07/10/18 15:23	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.11**	0.10	1	B8G0179	07/10/2018	07/11/18 10:46	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T6-F2
Lab ID: 1802426-14

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Arsenic	**4.5**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Barium	**98**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Chromium	**18**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Cobalt	**8.4**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Copper	**88**	2.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Lead	**11**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Nickel	**11**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Vanadium	**43**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	
Zinc	**50**	1.0	1	B8G0176	07/10/2018	07/10/18 15:24	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.28**	0.10	1	B8G0179	07/10/2018	07/11/18 10:48	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T6-N
Lab ID: 1802426-15

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	4.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Arsenic	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Barium	**320**	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Beryllium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Cadmium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Chromium	**2.1**	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Cobalt	**7.5**	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Copper	**16**	4.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Lead	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Molybdenum	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Nickel	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Selenium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Silver	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Thallium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Vanadium	**21**	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5
Zinc	**18**	2.0	2	B8G0176	07/10/2018	07/10/18 15:45	D5

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0179	07/10/2018	07/11/18 10:50	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T7-F1
Lab ID: 1802426-16

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Arsenic	**6.2**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Barium	**51**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Chromium	**14**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Cobalt	**9.0**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Copper	**270**	2.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Lead	**9.6**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Nickel	**15**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Vanadium	**32**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	
Zinc	**47**	1.0	1	B8G0176	07/10/2018	07/10/18 15:26	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	**0.22**	0.10	1	B8G0179	07/10/2018	07/11/18 10:56	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T7-F2
Lab ID: 1802426-17

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Arsenic	**1.6**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Barium	**85**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Chromium	**25**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Cobalt	**7.4**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Copper	**45**	2.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Lead	**2.9**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Nickel	**14**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Vanadium	**41**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	
Zinc	**25**	1.0	1	B8G0176	07/10/2018	07/10/18 15:27	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0179	07/10/2018	07/11/18 10:57	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T7-N
Lab ID: 1802426-18

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	4.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Arsenic	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Barium	**57**	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Beryllium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Cadmium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Chromium	**4.9**	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Cobalt	**8.5**	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Copper	**15**	4.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Lead	**2.1**	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Molybdenum	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Nickel	**2.3**	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Selenium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Silver	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Thallium	ND	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Vanadium	**38**	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5
Zinc	**33**	2.0	2	B8G0176	07/10/2018	07/10/18 15:46	D5

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0179	07/10/2018	07/11/18 10:59	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T8-F1
Lab ID: 1802426-19

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Arsenic	**2.9**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Barium	**68**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Chromium	**18**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Cobalt	**7.3**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Copper	**55**	2.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Lead	**3.5**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Nickel	**10**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Vanadium	**40**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	
Zinc	**31**	1.0	1	B8G0176	07/10/2018	07/10/18 15:30	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0179	07/10/2018	07/11/18 11:01	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T8-F2
Lab ID: 1802426-20

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Arsenic	**1.7**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Barium	**71**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Chromium	**21**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Cobalt	**6.7**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Copper	**33**	2.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Lead	**2.3**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Nickel	**11**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Vanadium	**37**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	
Zinc	**23**	1.0	1	B8G0176	07/10/2018	07/10/18 15:31	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0179	07/10/2018	07/11/18 11:03	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Client Sample ID T8-N
Lab ID: 1802426-21

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Arsenic	**1.2**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Barium	**69**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Beryllium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Cadmium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Chromium	**19**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Cobalt	**7.2**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Copper	**36**	2.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Lead	**2.5**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Molybdenum	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Nickel	**10**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Selenium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Silver	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Thallium	ND	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Vanadium	**36**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	
Zinc	**24**	1.0	1	B8G0176	07/10/2018	07/10/18 15:32	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8G0179	07/10/2018	07/11/18 11:05	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8G0174 - EPA 3050B_S										
Blank (B8G0174-BLK1)					Prepared: 7/10/2018 Analyzed: 7/10/2018					
Antimony	ND	2.0	0.51							
Arsenic	ND	1.0	0.12							
Barium	ND	1.0	0.12							
Beryllium	ND	1.0	0.03							
Cadmium	ND	1.0	0.14							
Chromium	ND	1.0	0.26							
Cobalt	ND	1.0	0.07							
Copper	ND	2.0	0.19							
Lead	ND	1.0	0.18							
Molybdenum	ND	1.0	0.12							
Nickel	ND	1.0	0.18							
Selenium	ND	1.0	0.40							
Silver	ND	1.0	0.12							
Thallium	ND	1.0	0.38							
Vanadium	ND	1.0	0.06							
Zinc	ND	1.0	0.15							
LCS (B8G0174-BS1)					Prepared: 7/10/2018 Analyzed: 7/10/2018					
Antimony	41.5714	2.0	0.51	50.0000		83.1	80 - 120			
Arsenic	40.0788	1.0	0.12	50.0000		80.2	80 - 120			
Barium	44.0857	1.0	0.12	50.0000		88.2	80 - 120			
Beryllium	40.7951	1.0	0.03	50.0000		81.6	80 - 120			
Cadmium	40.2105	1.0	0.14	50.0000		80.4	80 - 120			
Chromium	43.8620	1.0	0.26	50.0000		87.7	80 - 120			
Cobalt	43.7533	1.0	0.07	50.0000		87.5	80 - 120			
Copper	45.0149	2.0	0.19	50.0000		90.0	80 - 120			
Lead	41.0118	1.0	0.18	50.0000		82.0	80 - 120			
Molybdenum	44.4648	1.0	0.12	50.0000		88.9	80 - 120			
Nickel	42.8892	1.0	0.18	50.0000		85.8	80 - 120			
Selenium	40.1273	1.0	0.40	50.0000		80.3	80 - 120			
Silver	40.2306	1.0	0.12	50.0000		80.5	80 - 120			
Thallium	40.9695	1.0	0.38	50.0000		81.9	80 - 120			
Vanadium	44.2540	1.0	0.06	50.0000		88.5	80 - 120			
Zinc	40.2732	1.0	0.15	50.0000		80.5	80 - 120			
Matrix Spike (B8G0174-MS1)			**Source: 1802424-01**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Antimony	39.6872	2.0	0.51	124.378	ND	31.9	28 - 99			
Arsenic	83.4798	1.0	0.12	124.378	3.14073	64.6	49 - 99			
Barium	169.648	1.0	0.12	124.378	96.7001	58.7	19 - 135			
Beryllium	79.1263	1.0	0.03	124.378	ND	63.6	53 - 99			

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8G0174 - EPA 3050B_S (continued)										
Matrix Spike (B8G0174-MS1) - Continued			**Source: 1802424-01**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Cadmium	70.4015	1.0	0.14	124.378	0.598379	56.1	49 - 95			
Chromium	90.9074	1.0	0.26	124.378	11.4446	63.9	41 - 114			
Cobalt	82.0693	1.0	0.07	124.378	7.20540	60.2	44 - 106			
Copper	110.738	2.0	0.19	124.378	20.4990	72.6	42 - 120			
Lead	76.4052	1.0	0.18	124.378	4.50531	57.8	36 - 121			
Molybdenum	80.6892	1.0	0.12	124.378	0.672588	64.3	49 - 102			
Nickel	91.3744	1.0	0.18	124.378	18.6095	58.5	45 - 101			
Selenium	82.1482	1.0	0.40	124.378	0.518696	65.6	50 - 94			
Silver	80.8832	1.0	0.12	124.378	ND	65.0	33 - 120			
Thallium	67.4683	1.0	0.38	124.378	ND	54.2	41 - 95			
Vanadium	101.600	1.0	0.06	124.378	21.4546	64.4	45 - 113			
Zinc	111.754	1.0	0.15	124.378	47.6488	51.5	26 - 117			
Matrix Spike Dup (B8G0174-MSD1)			**Source: 1802424-01**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Antimony	42.2461	2.0	0.51	125.000	ND	33.8	28 - 99	6.25	20	
Arsenic	84.5411	1.0	0.12	125.000	3.14073	65.1	49 - 99	1.26	20	
Barium	163.158	1.0	0.12	125.000	96.7001	53.2	19 - 135	3.90	20	
Beryllium	79.7762	1.0	0.03	125.000	ND	63.8	53 - 99	0.818	20	
Cadmium	70.5420	1.0	0.14	125.000	0.598379	56.0	49 - 95	0.199	20	
Chromium	91.9374	1.0	0.26	125.000	11.4446	64.4	41 - 114	1.13	20	
Cobalt	82.7324	1.0	0.07	125.000	7.20540	60.4	44 - 106	0.805	20	
Copper	110.562	2.0	0.19	125.000	20.4990	72.1	42 - 120	0.159	20	
Lead	77.6344	1.0	0.18	125.000	4.50531	58.5	36 - 121	1.60	20	
Molybdenum	82.2805	1.0	0.12	125.000	0.672588	65.3	49 - 102	1.95	20	
Nickel	91.7482	1.0	0.18	125.000	18.6095	58.5	45 - 101	0.408	20	
Selenium	83.1493	1.0	0.40	125.000	0.518696	66.1	50 - 94	1.21	20	
Silver	80.2496	1.0	0.12	125.000	ND	64.2	33 - 120	0.786	20	
Thallium	68.4628	1.0	0.38	125.000	ND	54.8	41 - 95	1.46	20	
Vanadium	100.151	1.0	0.06	125.000	21.4546	63.0	45 - 113	1.44	20	
Zinc	113.602	1.0	0.15	125.000	47.6488	52.8	26 - 117	1.64	20	

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8G0176 - EPA 3050B_S										
Blank (B8G0176-BLK1)						Prepared: 7/10/2018 Analyzed: 7/10/2018				
Antimony	ND	2.0	0.51							
Arsenic	ND	1.0	0.12							
Barium	ND	1.0	0.12							
Beryllium	ND	1.0	0.03							
Cadmium	ND	1.0	0.14							
Chromium	ND	1.0	0.26							
Cobalt	ND	1.0	0.07							
Copper	ND	2.0	0.19							
Lead	ND	1.0	0.18							
Molybdenum	ND	1.0	0.12							
Nickel	ND	1.0	0.18							
Selenium	ND	1.0	0.40							
Silver	ND	1.0	0.12							
Thallium	ND	1.0	0.38							
Vanadium	ND	1.0	0.06							
Zinc	ND	1.0	0.15							
LCS (B8G0176-BS1)						Prepared: 7/10/2018 Analyzed: 7/10/2018				
Antimony	43.4755	2.0	0.51	50.0000		87.0	80 - 120			
Arsenic	43.1127	1.0	0.12	50.0000		86.2	80 - 120			
Barium	46.3678	1.0	0.12	50.0000		92.7	80 - 120			
Beryllium	42.6966	1.0	0.03	50.0000		85.4	80 - 120			
Cadmium	42.7551	1.0	0.14	50.0000		85.5	80 - 120			
Chromium	46.1766	1.0	0.26	50.0000		92.4	80 - 120			
Cobalt	45.8391	1.0	0.07	50.0000		91.7	80 - 120			
Copper	45.5103	2.0	0.19	50.0000		91.0	80 - 120			
Lead	44.2621	1.0	0.18	50.0000		88.5	80 - 120			
Molybdenum	44.3972	1.0	0.12	50.0000		88.8	80 - 120			
Nickel	44.8965	1.0	0.18	50.0000		89.8	80 - 120			
Selenium	43.1589	1.0	0.40	50.0000		86.3	80 - 120			
Silver	41.1996	1.0	0.12	50.0000		82.4	80 - 120			
Thallium	44.0555	1.0	0.38	50.0000		88.1	80 - 120			
Vanadium	45.8281	1.0	0.06	50.0000		91.7	80 - 120			
Zinc	43.4238	1.0	0.15	50.0000		86.8	80 - 120			
Matrix Spike (B8G0176-MS1)			**Source: 1802426-11**			Prepared: 7/10/2018 Analyzed: 7/10/2018				
Antimony	77.3570	2.0	0.51	125.000	ND	61.9	28 - 99			
Arsenic	95.4148	1.0	0.12	125.000	0.583314	75.9	49 - 99			
Barium	161.339	1.0	0.12	125.000	68.4777	74.3	19 - 135			
Beryllium	92.8644	1.0	0.03	125.000	ND	74.3	53 - 99			
Cadmium	90.6280	1.0	0.14	125.000	0.146498	72.4	49 - 95			
Chromium	133.758	1.0	0.26	125.000	30.7651	82.4	41 - 114			

Certificate of Analysis

Sierra Streams Institute	Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C	Report To :	Kyle Leach
Nevada City , CA 95959	Reported :	07/12/2018

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8G0176 - EPA 3050B_S (continued)										
Matrix Spike (B8G0176-MS1) - Continued			**Source: 1802426-11**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Cobalt	101.168	1.0	0.07	125.000	7.38355	75.0	44 - 106			
Copper	133.547	2.0	0.19	125.000	32.0861	81.2	42 - 120			
Lead	94.7798	1.0	0.18	125.000	3.02528	73.4	36 - 121			
Molybdenum	100.885	1.0	0.12	125.000	ND	80.7	49 - 102			
Nickel	107.484	1.0	0.18	125.000	15.7883	73.4	45 - 101			
Selenium	95.6894	1.0	0.40	125.000	ND	76.6	50 - 94			
Silver	92.5914	1.0	0.12	125.000	ND	74.1	33 - 120			
Thallium	83.3474	1.0	0.38	125.000	ND	66.7	41 - 95			
Vanadium	151.023	1.0	0.06	125.000	47.7144	82.6	45 - 113			
Zinc	117.107	1.0	0.15	125.000	27.0223	72.1	26 - 117			
Matrix Spike Dup (B8G0176-MSD1)			**Source: 1802426-11**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Antimony	86.2616	2.0	0.51	125.000	ND	69.0	28 - 99	10.9	20	
Arsenic	105.260	1.0	0.12	125.000	0.583314	83.7	49 - 99	9.81	20	
Barium	176.578	1.0	0.12	125.000	68.4777	86.5	19 - 135	9.02	20	
Beryllium	102.742	1.0	0.03	125.000	ND	82.2	53 - 99	10.1	20	
Cadmium	99.9174	1.0	0.14	125.000	0.146498	79.8	49 - 95	9.75	20	
Chromium	144.931	1.0	0.26	125.000	30.7651	91.3	41 - 114	8.02	20	
Cobalt	111.635	1.0	0.07	125.000	7.38355	83.4	44 - 106	9.84	20	
Copper	145.828	2.0	0.19	125.000	32.0861	91.0	42 - 120	8.79	20	
Lead	104.208	1.0	0.18	125.000	3.02528	80.9	36 - 121	9.48	20	
Molybdenum	111.364	1.0	0.12	125.000	ND	89.1	49 - 102	9.87	20	
Nickel	119.352	1.0	0.18	125.000	15.7883	82.9	45 - 101	10.5	20	
Selenium	105.934	1.0	0.40	125.000	ND	84.7	50 - 94	10.2	20	
Silver	102.625	1.0	0.12	125.000	ND	82.1	33 - 120	10.3	20	
Thallium	92.3634	1.0	0.38	125.000	ND	73.9	41 - 95	10.3	20	
Vanadium	162.892	1.0	0.06	125.000	47.7144	92.1	45 - 113	7.56	20	
Zinc	130.056	1.0	0.15	125.000	27.0223	82.4	26 - 117	10.5	20	

Certificate of Analysis

Sierra Streams Institute	Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C	Report To :	Kyle Leach
Nevada City , CA 95959	Reported :	07/12/2018

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8G0178 - EPA 7471_S										
Blank (B8G0178-BLK1)					Prepared: 7/10/2018 Analyzed: 7/10/2018					
Mercury	ND	0.10	0.006							
LCS (B8G0178-BS1)					Prepared: 7/10/2018 Analyzed: 7/10/2018					
Mercury	0.811357	0.10	0.006	0.833333		97.4	80 - 120			
Matrix Spike (B8G0178-MS1)			**Source: 1802424-01**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Mercury	0.946087	0.10	0.006	0.833333	0.178619	92.1	70 - 130			
Matrix Spike Dup (B8G0178-MSD1)			**Source: 1802424-01**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Mercury	0.931720	0.10	0.006	0.819672	0.178619	91.9	70 - 130	1.53	20	
Post Spike (B8G0178-PS1)			**Source: 1802424-01**		Prepared: 7/10/2018 Analyzed: 7/10/2018					
Mercury	0.007486			5.00000E-3	0.002143	107	85 - 115			

Certificate of Analysis

Sierra Streams Institute	Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C	Report To :	Kyle Leach
Nevada City , CA 95959	Reported :	07/12/2018

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8G0179 - EPA 7471_S										
Blank (B8G0179-BLK1)					Prepared: 7/10/2018 Analyzed: 7/11/2018					
Mercury	ND	0.10	0.006							
LCS (B8G0179-BS1)					Prepared: 7/10/2018 Analyzed: 7/11/2018					
Mercury	0.831474	0.10	0.006	0.833333		99.8	80 - 120			
Matrix Spike (B8G0179-MS1)			**Source: 1802426-11**		Prepared: 7/10/2018 Analyzed: 7/11/2018					
Mercury	0.950714	0.10	0.006	0.819672	0.154533	97.1	70 - 130			
Matrix Spike Dup (B8G0179-MSD1)			**Source: 1802426-11**		Prepared: 7/10/2018 Analyzed: 7/11/2018					
Mercury	0.977443	0.10	0.006	0.833333	0.154533	98.7	70 - 130	2.77	20	
Post Spike (B8G0179-PS1)			**Source: 1802426-11**		Prepared: 7/10/2018 Analyzed: 7/11/2018					
Mercury	0.007492			5.00000E-3	1.8544E-3	113	85 - 115			

Certificate of Analysis

Sierra Streams Institute		Project Number :	Cresent Mills Industrial Site
431 Uren St., Suite C		Report To :	Kyle Leach
Nevada City , CA 95959		Reported :	07/12/2018

Notes and Definitions

D5	Sample diluted due to failing internal standard in the original run.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 3

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180321

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
Client / ATL / FedEx / OnTrac / GSO / Other:	1. CHILLED	✓		5. # OF SAMPLES MATCH COC	✓	
	2. HEADSPACE (VOA)	NA		6. PRESERVED	✓	
	3. CONTAINER INTACT	✓		7. COOLER TEMP, deg C:	—	
	4. SEALED	✓				

CUSTOMER

Company: Sierra Streams Institute
Address: 13075 Woolman Ln
City: Nevada City State: CA Zip: 95959
Tel: 530 477-7132 Fax:

SEND REPORT TO:
Attn: Kyle Leach
Email: kleach08@gmail.com
Company: SSI
Address: 13075 Woolman Ln
City: Nevada City State: CA Zip: 95959

SEND INVOICE TO: same as SEND REPORT TO
Attn: Amber Aldridge
Email: amber@sierrastreams.org
Company: ~~SSI~~ Sierra Streams Institute
Address: 13075 Woolman Ln
City: Nevada City State: CA Zip: 95959

EDD: Excel, EDF, Equis
QA/QC: Routine, Caltrans, Legal, RWQCB, Level IV

PROJECT SAMPLES

Project Name: Crescent Mills Industrial Site
Project No.:
Sampler: Kyle Leach
Quote #: D17J091
PO #:
Special Instructions/Comments: Samples not refrigerated. Mercury is not a COC

Requested Analysis: Select Analysis T.Metals; Select Analysis Mercury EPA 1631; Select Analysis; Enter Custom Analysis
Sample Matrix: Select Soil Matrix; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Non-aqueous Matrix; Enter Custom Matrix
Turnaround Time (TAT)
Container: Quantity; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Bedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=ZnAc/2; 6=NaOH; 7=NAA2S2O3
Remarks

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	T.Metals	Mercury EPA 1631	Soil Matrix	Material: Glass	Remarks
1	1802426-01	T2-F1	6/28/18		X	X	X	X	
2	-02	T2-F2			X	X			
3	-03	T2-N			X	X			
4	-04	T3-F1			X	X			
5	-05	T3-F2			X	X			
6	-06	T3-N			X	X			
7	-07	T4-F1			X	X			
8	-08	T4-F2			X	X			
9	-09	T4-N			X	X			
10	-10	T5-F1			X	X			

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work --- ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20 sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.
12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Kyle Leach	7/3/18	800	MTK	7/5/18	1007
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Kyle Leach — Printed Name
Signature

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only	ATLCOC Ver:20180321
Method of Transport: Client, ATL, FedEx, OnTrac, GSO, Other:	Sample Conditions Upon Receipt
	1. CHILLED; 2. HEADSPACE (VOA); 3. CONTAINER INTACT; 4. SEALED; 5. # OF SAMPLES MATCH COC; 6. PRESERVED; 7. COOLER TEMP, deg C:

CUSTOMER

Company: Sierra Streams Institute
Address:
City: State: Zip:
Tel: 530 477 7132
Fax:

SEND REPORT TO:
Attn: Kyle Leach
Email:
Company: see pg 1
Address:
City: State: Zip:

SEND INVOICE TO: same as SEND REPORT TO
Attn: see pg 1
Email:
Company:
Address:
City: State: Zip:

EDD: Excel, EDF, Equis, ____
QA/QC: Routine, Caltrans, Legal, RWQCB, Level IV, ____

PROJECT SAMPLES

Project Name: Crescent Mills 1S
Project No.:
Sampler: Kyle Leach
Quote #: 0171091
PO #:
Special Instructions/Comments: see pg 1

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	Select Analysis Title 22 Metals	Select Analysis EPA 6010	Select Soil Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Quantity	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Pedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn(Ac)2; 6=NaOH; 7=NA2S2O3	Remarks
1	1802426-11	T5-F2	6/28/18		X		X								X		
2	-12	T5-N			X												
3	-13	T6-F1			X												
4	-14	T6-F2			X												
5	-15	T6-N			X												
6	-16	T7-F1			X												
7	-17	T7-F2			X												
8	-18	T7-N			X												
9	-19	T8-F1			X												
10	-20	T8-F2			X												

TERMS

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   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
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Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Kyle Leach	7/3/18	700	MAR	7/5/18	1003
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Printed Name: ____ Signature: [signature]

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20180321
Method of Transport	Sample Conditions Upon Receipt	
Client, ATL, FedEx, OnTrac, GSO, Other:	1. CHILLED	5. # OF SAMPLES MATCH COC
	2. HEADSPACE (VOA)	6. PRESERVED
	3. CONTAINER INTACT	7. COOLER TEMP. deg C:
	4. SEALED	

Condition | Y | N | Condition | Y | N

CUSTOMER

Company: Sierra Streams Institute
Address:
Tel: 530 477 7132
City: State: Zip: Fax:

SEND REPORT TO:
Attn: Kyle Leach Email:
Company: See page 1
Address:
City: State: Zip:

SEND INVOICE TO: same as SEND REPORT TO
Attn: See page 1 Email:
Company:
Address:
City: State: Zip:

EDD: Excel, EDF, Equis, ____
QA/QC: Routine, Caltrans, Legal, RWQCB, Level IV, ____

PROJECT SAMPLES

Project Name:
Project No.:
Sampler: Kyle Leach
Quote #:
PO #:
Special Instructions/Comments: See pg 1

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	Select Analysis: Title 22 Metals EPA 6010	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=ZnAc2; 6=NaOH; 7=NaAsO2	Remarks
1	1802426-21	T8-N	6/28/18		X																											X			
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			

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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Kyle Leach	7/3/18	800	[signature]	7/5/18	1007
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Kyle Leach — Printed Name
[signature] — Signature

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449

ELAP Certificate No. : 2119

17 July 2018

Kyle Leach

Sierra Streams Institute

431 Uren St., Suite C

Nevada City, CA 95959

RE: Crescent Mills Industrial Site

Work order number:1807022

Enclosed are the results of analyses for samples received by the laboratory on 07/02/18 15:28. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

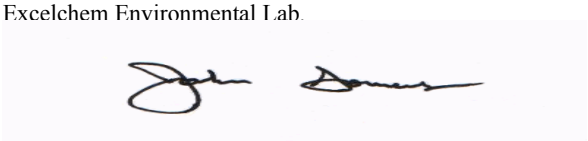
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T2-F1	1807022-01	Soil	06/28/18 00:00	07/02/18 15:28
T2-F2	1807022-02	Soil	06/28/18 00:00	07/02/18 15:28
T2-N	1807022-03	Soil	06/28/18 00:00	07/02/18 15:28
T3-F1	1807022-04	Soil	06/28/18 00:00	07/02/18 15:28
T3-F2	1807022-05	Soil	06/28/18 00:00	07/02/18 15:28
T3-N	1807022-06	Soil	06/28/18 00:00	07/02/18 15:28
T4-F1	1807022-07	Soil	06/28/18 00:00	07/02/18 15:28
T4-F2	1807022-08	Soil	06/28/18 00:00	07/02/18 15:28
T4-N	1807022-09	Soil	06/28/18 00:00	07/02/18 15:28
T5-F1	1807022-10	Soil	06/28/18 00:00	07/02/18 15:28
T5-F2	1807022-11	Soil	06/28/18 00:00	07/02/18 15:28
T5-N	1807022-12	Soil	06/28/18 00:00	07/02/18 15:28
T6-F1	1807022-13	Soil	06/28/18 00:00	07/02/18 15:28
T6-F2	1807022-14	Soil	06/28/18 00:00	07/02/18 15:28
T6-N	1807022-15	Soil	06/28/18 00:00	07/02/18 15:28
T7-F1	1807022-16	Soil	06/28/18 00:00	07/02/18 15:28
T7-F2	1807022-17	Soil	06/28/18 00:00	07/02/18 15:28
T7-N	1807022-18	Soil	06/28/18 00:00	07/02/18 15:28
T8-F1	1807022-19	Soil	06/28/18 00:00	07/02/18 15:28
T8-F2	1807022-20	Soil	06/28/18 00:00	07/02/18 15:28
T8-N	1807022-21	Soil	06/28/18 00:00	07/02/18 15:28
COMP 1 (T2-F1, T3-F1, T4-F1)	1807022-22	Soil	06/28/18 00:00	07/02/18 15:28
COMP 2 (T-5-F1, T6-F1, T7-F1, T8-F1)	1807022-23	Soil	06/28/18 00:00	07/02/18 15:28
COMP 3 (T2-F2, T3-F2, T4-F2)	1807022-24	Soil	06/28/18 00:00	07/02/18 15:28
COMP 4 (T5-F2, T6-F2, T7-F2, T8-F2)	1807022-25	Soil	06/28/18 00:00	07/02/18 15:28
COMP 5 (T2-N, T3-N, T4-N)	1807022-26	Soil	06/28/18 00:00	07/02/18 15:28
COMP 6 (T5-N, T6-N, T7-N, T8-N)	1807022-27	Soil	06/28/18 00:00	07/02/18 15:28
EQB-1	1807022-28	WASTE WATER	06/28/18 00:00	07/02/18 15:28

Excelchem Environmental Lab



Laboratory Representative

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Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Excelchem Environmental Lab

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Laboratory Representative

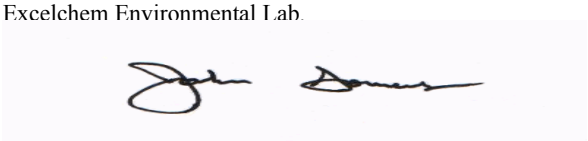
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T2-F1
1807022-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/09/18	EPA 8015Mod	

Excelchem Environmental Lab



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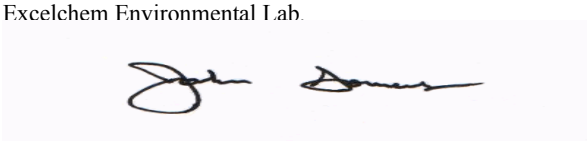
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T2-F2
1807022-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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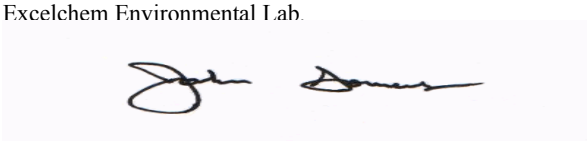
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T2-N
1807022-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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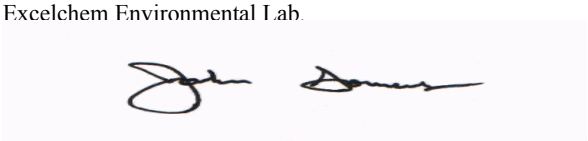
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T3-F1
1807022-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



Laboratory Representative

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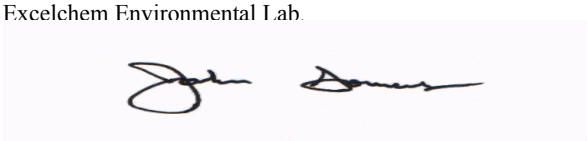
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T3-F2
1807022-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	**7.81**	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	D-18

Excelchem Environmental Lab



Laboratory Representative

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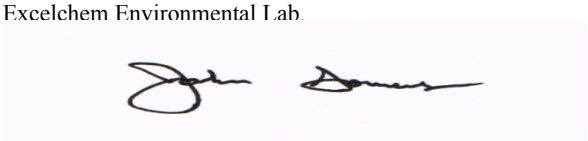
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T3-N
1807022-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



Laboratory Representative

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Excelchem Environmental Labs

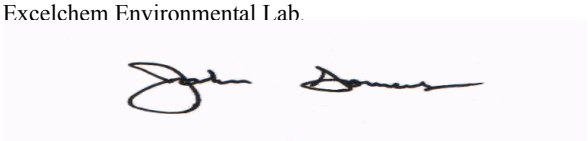
Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T4-F1

1807022-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



Laboratory Representative

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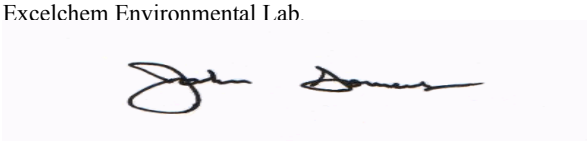
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T4-F2
1807022-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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Excelchem Environmental Labs

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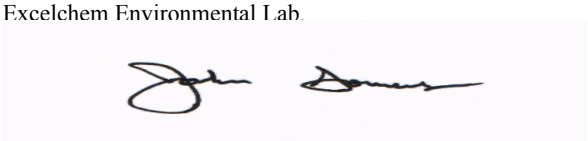
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T4-N
1807022-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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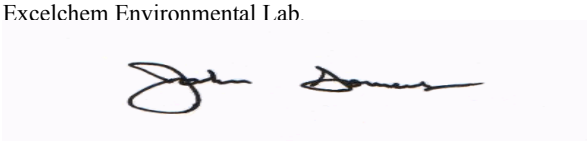
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T5-F1
1807022-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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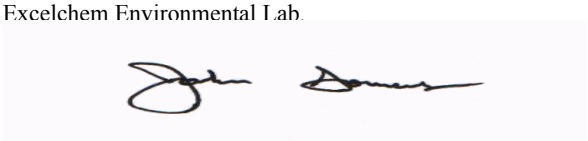
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T5-F2
1807022-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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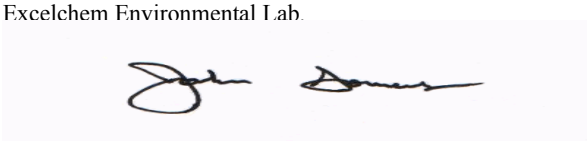
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T5-N

1807022-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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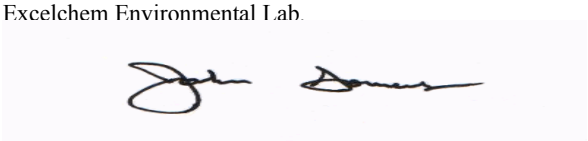
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T6-F1
1807022-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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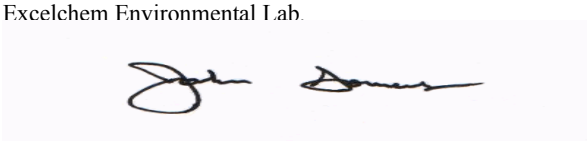
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T6-F2

1807022-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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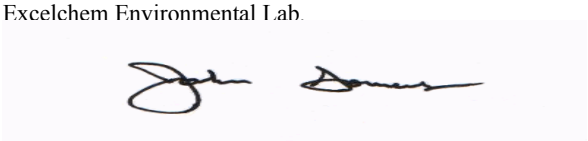
Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T6-N
1807022-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	**5.81**	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	D-18

Excelchem Environmental Lab



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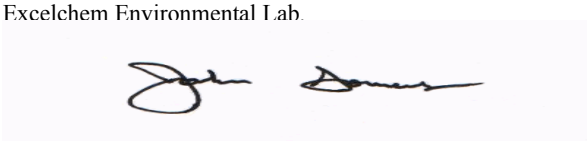
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T7-F1
1807022-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/10/18	EPA 8015Mod	

Excelchem Environmental Lab



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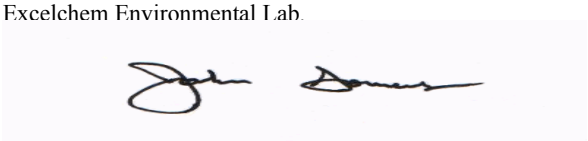
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T7-F2
1807022-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/11/18	EPA 8015Mod	

Excelchem Environmental Lab



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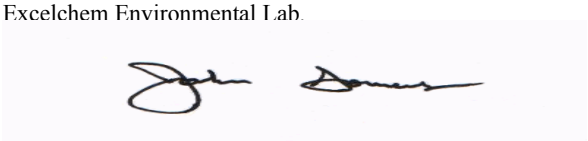
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T7-N
1807022-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0077	07/10/18	07/11/18	EPA 8015Mod	

Excelchem Environmental Lab



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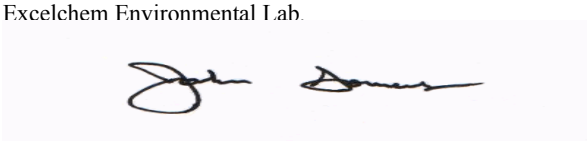
Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T8-F1
1807022-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/11/18	EPA 8015Mod	

Excelchem Environmental Lab



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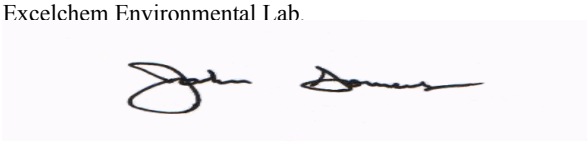
Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T8-F2
1807022-20 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	1.00	mg/kg	A\G0053	07/09/18	07/11/18	EPA 8015Mod	

Excelchem Environmental Lab



Laboratory Representative

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Excelchem Environmental Labs

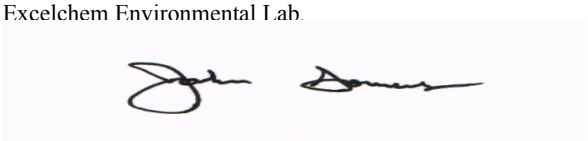
Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

T8-N

1807022-21 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	**7.85**	1.00	mg/kg	A\G0053	07/09/18	07/11/18	EPA 8015Mod	D-18

Excelchem Environmental Lab



Laboratory Representative

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Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 1 (T2-F1, T3-F1, T4-F1)
1807022-22 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
SemiVolatile Organic Compounds by GC/MS								
Pentachlorophenol	ND	0.350	mg/kg	A\G0062	07/09/18	07/10/18	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol	*99.6 %*	% Recovery Limits		*10-125*			"	
Surrogate: Terphenyl-dl4	*85.7 %*	% Recovery Limits		*10-125*			"	
Naphthalene	ND	0.00670	"	"	"	07/12/18	EPA 8270 SIM	
Acenaphthylene	ND	0.00670	"	"	"	"	"	
Acenaphthene	ND	0.00670	"	"	"	"	"	
Fluorene	ND	0.00670	"	"	"	"	"	
Phenanthrene	ND	0.00670	"	"	"	"	"	
Anthracene	ND	0.00670	"	"	"	"	"	
Fluoranthene	ND	0.00670	"	"	"	"	"	
Pyrene	ND	0.00670	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00670	"	"	"	"	"	
Chrysene	ND	0.00670	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00670	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0170	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00670	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.0170	"	"	"	"	"	
Surrogate: Terphenyl-dl4	*83.2 %*	% Recovery Limits		*10-120*			"	
EPA8290								
2,3,7,8-TCDD	**0.768**	0.500	pg/g	1822	07/11/18	07/12/18	EPA8290	
2,3,4,7,8-PeCDF	ND	2.50	"	"	"	"	"	
2,3,4,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDD	ND	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDF	**3.18**	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDD	ND	2.50	"	"	"	"	"	
2,3,7,8-TCDF	**1.98**	0.500	"	"	"	"	"	
1,2,3,7,8,9-HxCDF	ND	2.50	"	"	"	"	"	
OCDD	**623**	5.00	"	"	"	"	"	
OCDF	**33.4**	5.00	"	"	"	"	"	
TEQ	**9.11**		"	"	"	"	"	
Total HpCDD	**330**		"	"	"	"	"	
Total HpCDF	**103**		"	"	"	"	"	
Total HxCDD	**92.2**		"	"	"	"	"	

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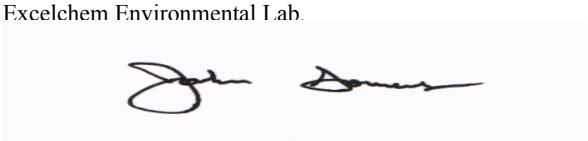

Laboratory Representative

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 1 (T2-F1, T3-F1, T4-F1)

1807022-22 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
EPA8290								
Total HxCDF	**118**		pg/g	1822	07/11/18	07/12/18	EPA8290	
Total PeCDD	ND		"	"	"	"	"	
1,2,3,4,7,8,9-HpCDF	ND	2.50	"	"	"	"	"	
Total TCDD	**0.768**		"	"	"	"	"	
Total PeCDF	**37.4**		"	"	"	"	"	
1,2,3,7,8,9-HxCDD	**5.09**	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDF	**37.2**	2.50	"	"	"	"	"	
Total TCDF	**13.5**		"	"	"	"	"	
1,2,3,4,6,7,8-HpCDD	**206**	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDD	**34.9**	2.50	"	"	"	"	"	

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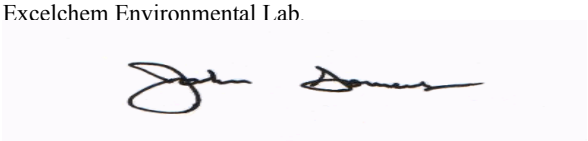

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 2 (T-5-F1, T6-F1, T7-F1, T8-F1)
1807022-23 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
SemiVolatile Organic Compounds by GC/MS								
Pentachlorophenol	ND	0.350	mg/kg	A\G0062	07/09/18	07/10/18	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol	*100 %*	% Recovery Limits		*10-125*			"	
Surrogate: Terphenyl-dl4	*79.5 %*	% Recovery Limits		*10-125*			"	
Naphthalene	ND	0.00670	"	"	"	07/12/18	EPA 8270 SIM	
Acenaphthylene	ND	0.00670	"	"	"	"	"	
Acenaphthene	ND	0.00670	"	"	"	"	"	
Fluorene	ND	0.00670	"	"	"	"	"	
Phenanthrene	ND	0.00670	"	"	"	"	"	
Anthracene	ND	0.00670	"	"	"	"	"	
Fluoranthene	ND	0.00670	"	"	"	"	"	
Pyrene	ND	0.00670	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00670	"	"	"	"	"	
Chrysene	ND	0.00670	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00670	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0170	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00670	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.0170	"	"	"	"	"	
Surrogate: Terphenyl-dl4	*73.3 %*	% Recovery Limits		*10-120*			"	
EPA8290								
1,2,3,4,7,8-HxCDF	ND	2.50	pg/g	1822	07/11/18	07/12/18	EPA8290	
1,2,3,4,6,7,8-HpCDD	**5.89**	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDF	ND	2.50	"	"	"	"	"	
2,3,7,8-TCDD	ND	0.500	"	"	"	"	"	
1,2,3,4,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDD	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDF	ND	2.50	"	"	"	"	"	
2,3,4,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
2,3,4,7,8-PeCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8,9-HpCDF	ND	2.50	"	"	"	"	"	
Total TCDF	ND		"	"	"	"	"	
1,2,3,7,8,9-HxCDF	ND	2.50	"	"	"	"	"	
Total HpCDF	ND		"	"	"	"	"	

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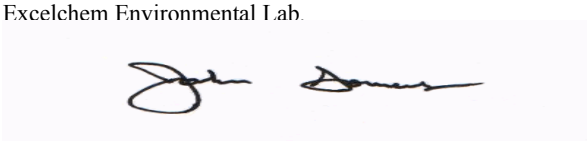

Laboratory Representative

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 2 (T-5-F1, T6-F1, T7-F1, T8-F1)
1807022-23 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
EPA8290								
Total PeCDF	ND		pg/g	1822	07/11/18	07/12/18	EPA8290	
Total PeCDD	ND		"	"	"	"	"	
Total HpCDD	**10.3**		"	"	"	"	"	
Total HxCDD	ND		"	"	"	"	"	
Total TCDD	ND		"	"	"	"	"	
OCDF	ND	5.00	"	"	"	"	"	
Total HxCDF	**2.03**		"	"	"	"	"	
TEQ	**0.0654**		"	"	"	"	"	
OCDD	**21.5**	5.00	"	"	"	"	"	
2,3,7,8-TCDF	ND	0.500	"	"	"	"	"	
1,2,3,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	

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Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 3 (T2-F2, T3-F2, T4-F2)
1807022-24 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
SemiVolatile Organic Compounds by GC/MS								
Pentachlorophenol	ND	0.350	mg/kg	A\G0062	07/09/18	07/10/18	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol	*89.4 %*	% Recovery Limits		*10-125*			"	
Surrogate: Terphenyl-dl4	*71.6 %*	% Recovery Limits		*10-125*			"	
Naphthalene	ND	0.00670	"	"	"	07/12/18	EPA 8270 SIM	
Acenaphthylene	ND	0.00670	"	"	"	"	"	
Acenaphthene	ND	0.00670	"	"	"	"	"	
Fluorene	ND	0.00670	"	"	"	"	"	
Phenanthrene	ND	0.00670	"	"	"	"	"	
Anthracene	ND	0.00670	"	"	"	"	"	
Fluoranthene	ND	0.00670	"	"	"	"	"	
Pyrene	ND	0.00670	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00670	"	"	"	"	"	
Chrysene	ND	0.00670	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00670	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0170	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00670	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.0170	"	"	"	"	"	
Surrogate: Terphenyl-dl4	*67.3 %*	% Recovery Limits		*10-120*			"	
EPA8290								
1,2,3,4,6,7,8-HpCDD	**9.45**	2.50	pg/g	1822	07/11/18	07/12/18	EPA8290	
2,3,7,8-TCDD	ND	0.500	"	"	"	"	"	
Total TCDF	ND		"	"	"	"	"	
Total TCDD	ND		"	"	"	"	"	
Total PeCDF	ND		"	"	"	"	"	
Total PeCDD	ND		"	"	"	"	"	
Total HxCDF	**1.27**		"	"	"	"	"	
Total HxCDD	ND		"	"	"	"	"	
Total HpCDF	**6.4**		"	"	"	"	"	
Total HpCDD	**16.1**		"	"	"	"	"	
TEQ	**0.145**		"	"	"	"	"	
OCDF	ND	5.00	"	"	"	"	"	
2,3,7,8-TCDF	ND	0.500	"	"	"	"	"	
2,3,4,7,8-PeCDF	ND	2.50	"	"	"	"	"	
2,3,4,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	

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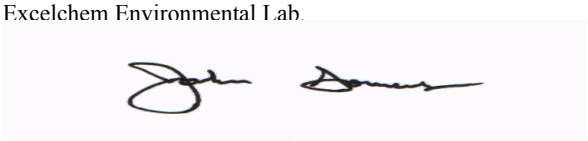

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 3 (T2-F2, T3-F2, T4-F2)

1807022-24 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
EPA8290								
1,2,3,7,8-PeCDF	ND	2.50	pg/g	1822	07/11/18	07/12/18	EPA8290	
1,2,3,7,8-PeCDD	ND	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8,9-HpCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDF	**3.29**	2.50	"	"	"	"	"	
OCDD	**57.8**	5.00	"	"	"	"	"	

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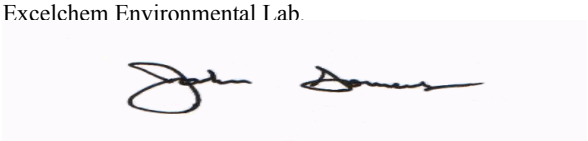

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 4 (T5-F2, T6-F2, T7-F2, T8-F2)
1807022-25 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
SemiVolatile Organic Compounds by GC/MS								
Pentachlorophenol	ND	0.350	mg/kg	A\G0062	07/09/18	07/10/18	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol	*110 %*	% Recovery Limits		*10-125*			"	
Surrogate: Terphenyl-dl4	*83.1 %*	% Recovery Limits		*10-125*			"	
Naphthalene	ND	0.00670	"	"	"	07/12/18	EPA 8270 SIM	
Acenaphthylene	ND	0.00670	"	"	"	"	"	
Acenaphthene	ND	0.00670	"	"	"	"	"	
Fluorene	ND	0.00670	"	"	"	"	"	
Phenanthrene	ND	0.00670	"	"	"	"	"	
Anthracene	ND	0.00670	"	"	"	"	"	
Fluoranthene	ND	0.00670	"	"	"	"	"	
Pyrene	ND	0.00670	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00670	"	"	"	"	"	
Chrysene	ND	0.00670	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00670	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0170	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00670	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.0170	"	"	"	"	"	
Surrogate: Terphenyl-dl4	*82.2 %*	% Recovery Limits		*10-120*			"	
EPA8290								
Total PeCDF	**4.10**		pg/g	1822	07/11/18	07/12/18	EPA8290	
2,3,4,7,8-PeCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDF	**7.77**	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDD	**34.4**	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDD	**5.87**	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDD	**1.58**	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDD	ND	2.50	"	"	"	"	"	
Total TCDF	ND		"	"	"	"	"	
2,3,4,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
Total TCDD	ND		"	"	"	"	"	
2,3,7,8-TCDD	ND	0.500	"	"	"	"	"	

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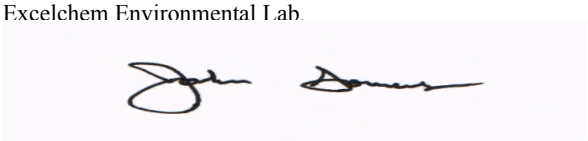

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 4 (T5-F2, T6-F2, T7-F2, T8-F2)
1807022-25 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
EPA8290								
2,3,7,8-TCDF	ND	0.500	pg/g	1822	07/11/18	07/12/18	EPA8290	
OCDD	**102**	5.00	"	"	"	"	"	
OCDF	**7.12**	5.00	"	"	"	"	"	
TEQ	**1.20**		"	"	"	"	"	
Total HpCDD	**55.7**		"	"	"	"	"	
Total HpCDF	**20.4**		"	"	"	"	"	
Total HxCDD	**17.8**		"	"	"	"	"	
Total HxCDF	**17.5**		"	"	"	"	"	
Total PeCDD	ND		"	"	"	"	"	
1,2,3,4,7,8,9-HpCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDF	ND	2.50	"	"	"	"	"	

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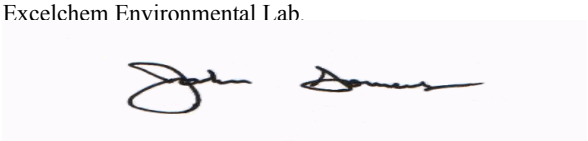

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 5 (T2-N, T3-N, T4-N)

1807022-26 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
SemiVolatile Organic Compounds by GC/MS								
Pentachlorophenol	ND	0.350	mg/kg	A\G0062	07/09/18	07/11/18	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol	*108 %*	% Recovery Limits		*10-125*			"	
Surrogate: Terphenyl-dl4	*87.9 %*	% Recovery Limits		*10-125*			"	
Naphthalene	ND	0.00670	"	"	"	07/12/18	EPA 8270 SIM	
Acenaphthylene	ND	0.00670	"	"	"	"	"	
Acenaphthene	ND	0.00670	"	"	"	"	"	
Fluorene	ND	0.00670	"	"	"	"	"	
Phenanthrene	ND	0.00670	"	"	"	"	"	
Anthracene	ND	0.00670	"	"	"	"	"	
Fluoranthene	ND	0.00670	"	"	"	"	"	
Pyrene	ND	0.00670	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00670	"	"	"	"	"	
Chrysene	ND	0.00670	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00670	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0170	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00670	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.0170	"	"	"	"	"	
Surrogate: Terphenyl-dl4	*85.4 %*	% Recovery Limits		*10-120*			"	
EPA8290								
Total HpCDD	**8.15**		pg/g	1822	07/11/18	07/12/18	EPA8290	
1,2,3,6,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDF	ND	2.50	"	"	"	"	"	
2,3,4,7,8-PeCDF	ND	2.50	"	"	"	"	"	
2,3,7,8-TCDD	ND	0.500	"	"	"	"	"	
2,3,7,8-TCDF	ND	0.500	"	"	"	"	"	
OCDD	**28.2**	5.00	"	"	"	"	"	
1,2,3,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
TEQ	**0.0543**		"	"	"	"	"	
1,2,3,4,7,8,9-HpCDF	ND	2.50	"	"	"	"	"	
Total HpCDF	ND		"	"	"	"	"	
Total HxCDD	ND		"	"	"	"	"	
Total HxCDF	ND		"	"	"	"	"	

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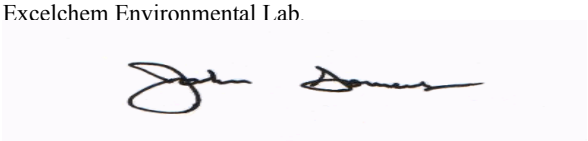

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 5 (T2-N, T3-N, T4-N)

1807022-26 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
EPA8290								
Total PeCDD	ND		pg/g	1822	07/11/18	07/12/18	EPA8290	
Total PeCDF	ND		"	"	"	"	"	
Total TCDD	ND		"	"	"	"	"	
Total TCDF	ND		"	"	"	"	"	
OCDF	ND	5.00	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDD	**4.58**	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDD	ND	2.50	"	"	"	"	"	
2,3,4,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	

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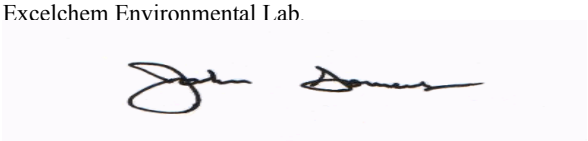

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431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 6 (T5-N, T6-N, T7-N, T8-N)
1807022-27 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
SemiVolatile Organic Compounds by GC/MS								
Pentachlorophenol	ND	0.350	mg/kg	A\G0062	07/09/18	07/10/18	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol	*102 %*	% Recovery Limits		*10-125*			"	
Surrogate: Terphenyl-dl4	*89.8 %*	% Recovery Limits		*10-125*			"	
Naphthalene	ND	0.00670	"	"	"	07/12/18	EPA 8270 SIM	
Acenaphthylene	ND	0.00670	"	"	"	"	"	
Acenaphthene	ND	0.00670	"	"	"	"	"	
Fluorene	ND	0.00670	"	"	"	"	"	
Phenanthrene	ND	0.00670	"	"	"	"	"	
Anthracene	ND	0.00670	"	"	"	"	"	
Fluoranthene	ND	0.00670	"	"	"	"	"	
Pyrene	ND	0.00670	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00670	"	"	"	"	"	
Chrysene	ND	0.00670	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00670	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00670	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0170	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00670	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.0170	"	"	"	"	"	
Surrogate: Terphenyl-dl4	*79.5 %*	% Recovery Limits		*10-120*			"	
EPA8290								
TEQ	**0.0418**		pg/g	1822	07/11/18	07/12/18	EPA8290	
Total HxCDF	ND		"	"	"	"	"	
Total HpCDF	ND		"	"	"	"	"	
Total HxCDD	ND		"	"	"	"	"	
Total HpCDD	**6.31**		"	"	"	"	"	
Total PeCDD	ND		"	"	"	"	"	
Total PeCDF	ND		"	"	"	"	"	
Total TCDF	ND		"	"	"	"	"	
1,2,3,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
OCDF	ND	5.00	"	"	"	"	"	
Total TCDD	ND		"	"	"	"	"	
1,2,3,4,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDD	ND	2.50	"	"	"	"	"	
2,3,7,8-TCDF	ND	0.500	"	"	"	"	"	
2,3,7,8-TCDD	ND	0.500	"	"	"	"	"	

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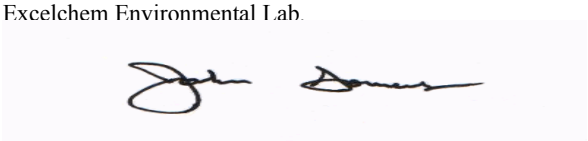

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431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

COMP 6 (T5-N, T6-N, T7-N, T8-N)
1807022-27 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
EPA8290								
2,3,4,7,8-PeCDF	ND	2.50	pg/g	1822	07/11/18	07/12/18	EPA8290	
2,3,4,6,7,8-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDD	**3.08**	2.50	"	"	"	"	"	
1,2,3,4,6,7,8-HpCDF	ND	2.50	"	"	"	"	"	
1,2,3,4,7,8,9-HpCDF	ND	2.50	"	"	"	"	"	
1,2,3,6,7,8-HxCDD	ND	2.50	"	"	"	"	"	
1,2,3,7,8,9-HxCDF	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDD	ND	2.50	"	"	"	"	"	
1,2,3,7,8-PeCDF	ND	2.50	"	"	"	"	"	
OCDD	**36.8**	5.00	"	"	"	"	"	
1,2,3,4,7,8-HxCDD	ND	2.50	"	"	"	"	"	

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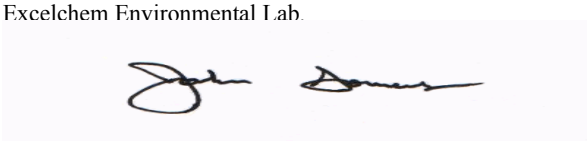

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431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

EQB-1
1807022-28 (WASTE WATER)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Petroleum Hydrocarbons by FID								
TPH as Diesel	ND	50.0	ug/l	A\G0047	06/29/18	07/09/18	EPA 8015Mod	
Total Recoverable Metals								
Arsenic	ND	10.0	ug/l	A\G0050	07/09/18	07/09/18	EPA 6010B	

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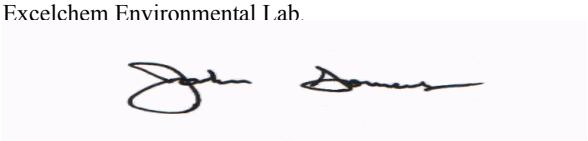

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Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Total Petroleum Hydrocarbons by FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A\G0047 - EPA 8015Mod										
Blank (A\G0047-BLK1)				Prepared: 06/29/18 Analyzed: 07/09/18						
TPH as Diesel	ND	50.0	ug/l							
LCS (A\G0047-BS1)				Prepared: 06/29/18 Analyzed: 07/09/18						
TPH as Diesel	5390	50.0	ug/l	5000		108	70-130			
LCS Dup (A\G0047-BSD1)				Prepared: 06/29/18 Analyzed: 07/09/18						
TPH as Diesel	5360	50.0	ug/l	5000		107	70-130	0.563	30	
Batch A\G0053 - EPA 8015Mod										
Blank (A\G0053-BLK1)				Prepared & Analyzed: 07/09/18						
TPH as Diesel	ND	1.00	mg/kg							
LCS (A\G0053-BS1)				Prepared & Analyzed: 07/09/18						
TPH as Diesel	79.1	1.00	mg/kg	100		79.1	70-130			
LCS Dup (A\G0053-BSD1)				Prepared & Analyzed: 07/09/18						
TPH as Diesel	72.2	1.00	mg/kg	100		72.2	70-130	9.02	30	
Matrix Spike (A\G0053-MS1)		**Source: 1807022-05**		Prepared: 07/09/18 Analyzed: 07/10/18						
TPH as Diesel	79.9	1.00	mg/kg	100	7.81	72.1	70-130			
Matrix Spike Dup (A\G0053-MSD1)		**Source: 1807022-05**		Prepared: 07/09/18 Analyzed: 07/10/18						
TPH as Diesel	73.1	1.00	mg/kg	100	7.81	65.2	70-130	8.92	30	QR-07
Batch A\G0077 - EPA 8015Mod										
Blank (A\G0077-BLK1)				Prepared: 07/10/18 Analyzed: 07/11/18						
TPH as Diesel	ND	1.00	mg/kg							

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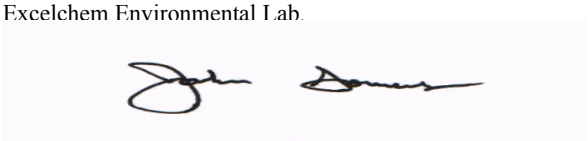

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431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Total Petroleum Hydrocarbons by FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A\G0077 - EPA 8015Mod										
LCS (A\G0077-BS1)				Prepared: 07/10/18 Analyzed: 07/11/18						
TPH as Diesel	75.1	1.00	mg/kg	100		75.1	70-130			
LCS Dup (A\G0077-BSD1)				Prepared: 07/10/18 Analyzed: 07/11/18						
TPH as Diesel	74.9	1.00	mg/kg	100		74.9	70-130	0.249	30	
Matrix Spike (A\G0077-MS1)		**Source: 1807022-18**		Prepared: 07/10/18 Analyzed: 07/11/18						
TPH as Diesel	30.8	1.00	mg/kg	100	ND	30.8	70-130			QR-07
Matrix Spike Dup (A\G0077-MSD1)		**Source: 1807022-18**		Prepared: 07/10/18 Analyzed: 07/11/18						
TPH as Diesel	35.6	1.00	mg/kg	100	ND	35.6	70-130	14.7	30	QR-07

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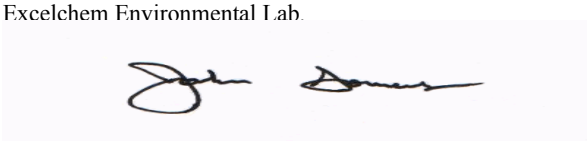

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431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

SemiVolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A\G0062 - EPA 8270C										
Blank (A\G0062-BLK1)				Prepared: 07/09/18 Analyzed: 07/10/18						
Surrogate: 2,4,6-Tribromophenol	*1.26*		*mg/kg*	*1.67*		*75.5*	*10-125*			
Surrogate: Terphenyl-dl4	*1.29*		*"*	*1.67*		*77.7*	*10-125*			
Surrogate: Terphenyl-dl4	*1.30*		*"*	*1.67*		*78.0*	*10-120*			
Naphthalene	ND	0.00670	"							
Acenaphthylene	ND	0.00670	"							
Acenaphthene	ND	0.00670	"							
Fluorene	ND	0.00670	"							
Phenanthrene	ND	0.00670	"							
Anthracene	ND	0.00670	"							
Fluoranthene	ND	0.00670	"							
Pyrene	ND	0.00670	"							
Benzo (a) anthracene	ND	0.00670	"							
Chrysene	ND	0.00670	"							
Benzo (b) fluoranthene	ND	0.00670	"							
Benzo (k) fluoranthene	ND	0.00670	"							
Benzo (a) pyrene	ND	0.00670	"							
Indeno (1,2,3-cd) pyrene	ND	0.0170	"							
Dibenz (a,h) anthracene	ND	0.00670	"							
Benzo (g,h,i) perylene	ND	0.0170	"							
Pentachlorophenol	ND	0.350	"							
LCS (A\G0062-BS1)				Prepared: 07/09/18 Analyzed: 07/10/18						
Surrogate: 2,4,6-Tribromophenol	*1.41*		*mg/kg*	*1.67*		*84.7*	*0-150*			
Surrogate: Terphenyl-dl4	*1.39*		*"*	*1.67*		*83.6*	*0-150*			
Surrogate: Terphenyl-dl4	*1.74*		*"*	*1.67*		*104*	*10-120*			
Acenaphthene	0.817	0.00670	"	1.67		49.0	20-125			
Pyrene	1.05	0.00670	"	1.67		63.2	20-125			
Pentachlorophenol	1.23	0.350	"	2.50		49.1	0-150			

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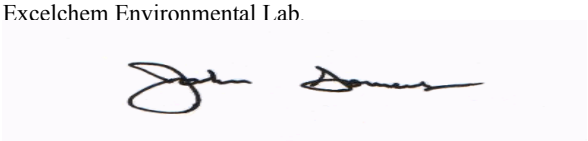

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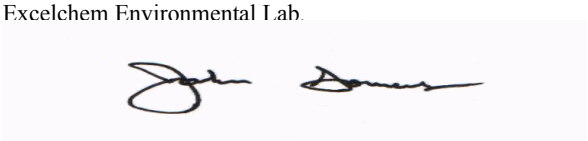
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

SemiVolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A\G0062 - EPA 8270C										
LCS Dup (A\G0062-BSD1)				Prepared: 07/09/18 Analyzed: 07/10/18						
Surrogate: 2,4,6-Tribromophenol	*1.48*		*mg/kg*	*1.67*		*89.0*	*0-150*			
Surrogate: Terphenyl-dl4	*1.55*		*"*	*1.67*		*93.2*	*0-150*			
Surrogate: Terphenyl-dl4	*1.72*		*"*	*1.67*		*103*	*10-120*			
Acenaphthene	0.895	0.00670	"	1.67		53.7	20-125	9.19	20	
Pyrene	1.14	0.00670	"	1.67		68.2	20-125	7.61	20	
Pentachlorophenol	1.40	0.350	"	2.50		56.1	0-150	13.3	20	
Matrix Spike (A\G0062-MS1)		**Source: 1807022-22**		Prepared: 07/09/18 Analyzed: 07/10/18						
Surrogate: 2,4,6-Tribromophenol	*1.75*		*mg/kg*	*1.67*		*105*	*0-150*			
Surrogate: Terphenyl-dl4	*1.64*		*"*	*1.67*		*98.3*	*0-150*			
Surrogate: Terphenyl-dl4	*1.63*		*"*	*1.67*		*97.9*	*10-120*			
Acenaphthene	0.977	0.00670	"	1.67	ND	58.6	20-125			
Pyrene	0.907	0.00670	"	1.67	ND	54.4	20-125			
Pentachlorophenol	1.52	0.350	"	2.50	ND	60.9	0-150			
Matrix Spike Dup (A\G0062-MSD1)		**Source: 1807022-22**		Prepared: 07/09/18 Analyzed: 07/10/18						
Surrogate: 2,4,6-Tribromophenol	*1.81*		*mg/kg*	*1.67*		*109*	*0-150*			
Surrogate: Terphenyl-dl4	*1.66*		*"*	*1.67*		*99.6*	*0-150*			
Surrogate: Terphenyl-dl4	*1.75*		*"*	*1.67*		*105*	*10-120*			
Acenaphthene	1.04	0.00670	"	1.67	ND	62.2	20-125	5.86	20	
Pyrene	0.986	0.00670	"	1.67	ND	59.1	20-125	8.35	20	
Pentachlorophenol	1.55	0.350	"	2.50	ND	62.0	0-150	1.87	20	

Excelchem Environmental Lab



Laboratory Representative

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.

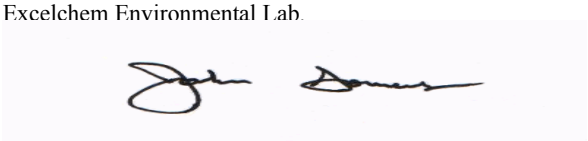
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A\G0050 - EPA 6010B										
Blank (A\G0050-BLK1)				Prepared & Analyzed: 07/09/18						
Arsenic	ND	10.0	ug/l							
LCS (A\G0050-BS1)				Prepared & Analyzed: 07/09/18						
Arsenic	1050	10.0	ug/l	1000		105	80-120			
LCS Dup (A\G0050-BSD1)				Prepared & Analyzed: 07/09/18						
Arsenic	1040	10.0	ug/l	1000		104	80-120	0.479	25	
Matrix Spike (A\G0050-MS1)		**Source: 1807022-28**		Prepared & Analyzed: 07/09/18						
Arsenic	1050	10.0	ug/l	1000	ND	105	75-125			
Matrix Spike Dup (A\G0050-MSD1)		**Source: 1807022-28**		Prepared & Analyzed: 07/09/18						
Arsenic	1060	10.0	ug/l	1000	ND	106	75-125	0.758	25	

Excelchem Environmental Lab



Laboratory Representative

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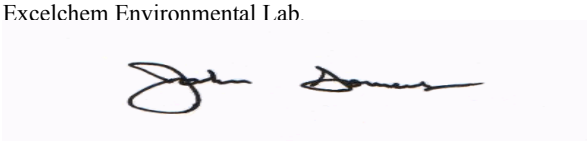
Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

EPA8290 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1822 - EPA8290										
LCS (LCS-1822)				Prepared: 07/11/18 Analyzed: 07/12/18						
1,2,3,7,8-PeCDD	113					113	130-70			
1,2,3,4,7,8-HxCDF	110		"			110	130-70			
OCDF	105		"			105	130-70			
OCDD	114		"			114	130-70			
2,3,7,8-TCDF	111		"			111	130-70			
2,3,7,8-TCDD	110		"			110	130-70			
2,3,4,7,8-PeCDF	110		"			110	130-70			
1,2,3,7,8-PeCDF	113		"			113	130-70			
1,2,3,4,7,8-HxCDD	111		"			111	130-70			
1,2,3,7,8,9-HxCDF	115		"			115	130-70			
1,2,3,7,8,9-HxCDD	124		"			124	130-70			
1,2,3,6,7,8-HxCDF	107		"			107	130-70			
1,2,3,6,7,8-HxCDD	118		"			118	130-70			
1,2,3,4,6,7,8-HpCDD	115		"			115	130-70			
1,2,3,4,7,8,9-HpCDF	112		"			112	130-70			
2,3,4,6,7,8-HxCDF	105		"			105	130-70			
1,2,3,4,6,7,8-HpCDF	106		"			106	130-70			
LCSD (LCSD-1822)				Prepared: 07/11/18 Analyzed: 07/12/18						
OCDF	107					107	130-70	1.33	10.0	
2,3,4,6,7,8-HxCDF	106		"			106	130-70	0.67	10.0	
2,3,7,8-TCDD	106		"			106	130-70	2.62	10.0	
OCDD	115		"			115	130-70	0.62	10.0	
1,2,3,7,8-PeCDF	114		"			114	130-70	0.62	10.0	
1,2,3,7,8-PeCDD	110		"			110	130-70	1.90	10.0	
2,3,7,8-TCDF	112		"			112	130-70	0.63	10.0	
1,2,3,7,8,9-HxCDD	120		"			120	130-70	2.32	10.0	
1,2,3,6,7,8-HxCDF	103		"			103	130-70	2.69	10.0	
1,2,3,6,7,8-HxCDD	115		"			115	130-70	1.82	10.0	
1,2,3,4,7,8-HxCDF	108		"			108	130-70	1.30	10.0	
1,2,3,4,7,8-HxCDD	113		"			113	130-70	1.26	10.0	
1,2,3,4,7,8,9-HpCDF	111		"			111	130-70	0.63	10.0	
1,2,3,4,6,7,8-HpCDF	103		"			103	130-70	2.03	10.0	
1,2,3,4,6,7,8-HpCDD	113		"			113	130-70	1.24	10.0	
2,3,4,7,8-PeCDF	111		"			111	130-70	0.64	10.0	
1,2,3,7,8,9-HxCDF	111		"			111	130-70	2.5	10.0	

Excelchem Environmental Lab



Laboratory Representative

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Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

EPA8290 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1822 - EPA8290										
MB (MB-1822)				Prepared: 07/11/18 Analyzed: 07/12/18						
2,3,4,7,8-PeCDF	ND	2.50	pg/g				-			
Total PeCDD	ND		"				-			
Total PeCDF	ND		"				-			
Total TCDD	ND		"				-			
Total TCDF	ND		"				-			
1,2,3,7,8,9-HxCDD	ND	2.50	"				-			
1,2,3,7,8,9-HxCDF	ND	2.50	"				-			
1,2,3,7,8-PeCDD	ND	2.50	"				-			
OCDD	ND	5.00	"				-			
2,3,4,6,7,8-HxCDF	ND	2.50	"				-			
Total HpCDF	ND		"				-			
2,3,7,8-TCDD	ND	0.500	"				-			
1,2,3,7,8-PeCDF	ND	2.50	"				-			
OCDF	ND	5.00	"				-			
TEQ	ND		"				-			
2,3,7,8-TCDF	ND	0.500	"				-			
Total HxCDD	ND		"				-			
Total HpCDD	ND		"				-			
1,2,3,6,7,8-HxCDF	ND	2.50	"				-			
1,2,3,6,7,8-HxCDD	ND	2.50	"				-			
1,2,3,4,7,8-HxCDF	ND	2.50	"				-			
1,2,3,4,7,8-HxCDD	ND	2.50	"				-			
1,2,3,4,7,8,9-HpCDF	ND	2.50	"				-			
1,2,3,4,6,7,8-HpCDF	ND	2.50	"				-			
1,2,3,4,6,7,8-HpCDD	ND	2.50	"				-			
Total HxCDF	ND		"				-			

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Notes and Definitions

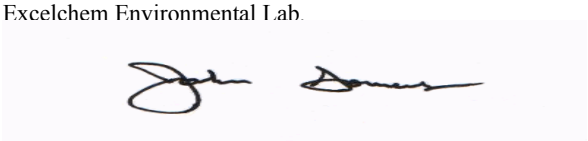
QR-07 Recoveries are outside acceptable QA/QC parameters due to matrix interferences.

D-18 The sample chromatogram does not match the standard diesel chromatogram. All peaks were integrated within the diesel range. The result is an estimated value.

ND Analyte not detected at reporting limit.

NR Not reported

Excelchem Environmental Lab



Laboratory Representative

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Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Composite Sample Protocol

Site: Crescent Mills Industrial Site

Client: Sierra Streams Institute

Please composite the following samples and retain extra aliquots for possible additional analysis

Composite sample name	Discrete Samples
Comp 1:	T2-F1, T3-F1, T4-F1
Comp 2:	T5-F1, T6-F1, T7-F1, T8-F1
Comp 3:	T2-F2, T3-F2, T4-F2
Comp 4:	T5-F2, T6-F2, T7-F2, T8-F2
Comp 5:	T2-N, T3-N, T4-N
Comp 6:	T5-N, T6-N, T7-N, T8-N

Analysis and Maximum Reporting Limits:

Dioxins and furans by EPA 16~~B~~09 8290	2,3,7,8 TCDD TEQ	<35 pg/g
PAHs and PCP by EPA 8270	Benzo(a)pyrene	<0.35 mg/kg

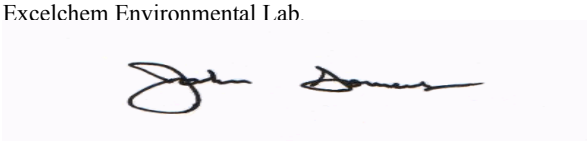
Any questions call

Kyle Leach

Sierra Streams Institute

530 575-5605

Excelchem Environmental Lab



Laboratory Representative

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Sample Integrity

WORK ORDER: 1807022

Date Received: 07/2/2018

Section 1 – Sample Arrival Info.

Sample Transport: **Walk-In** Transported In: **Ice Chest**

Describe type of packing materials: **None**

Has chilling process begun? **Yes** Samples Received: **Chilled to Touch**

Temperature of Samples (°C): **22** Ice Chest Temperature(s) (°C): **N/A**

Section 2 – Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	X			-
Did all bottle labels agree with COC?	X			-
Were correct containers used for the tests requested?	X			-
Were correct preservations used for the tests requested?	X			-
Was a sufficient amount of sample sent for tests indicated?	X			-
Were bubbles present in VOA Vials?: **(Volatile Methods Only)**			X	-

Section 3 – Summa/Flow regulator Info.

Used Summa#:

Unused Summa#:

Cleaning Summa#:

Regulator#:

Was there any visual damage to summa canisters **or** flow regulators? **Explain.**

N/A

Section 4 – COC Info.

	Completed Yes	Info From No	Comment		Completed Yes	No	Comments
Was COC Received	X		-	Analysis Requested	X		-
Date Sampled	X		-	Samples arrived within holding time	X		-
Time Sampled		X	-	Any hold times less than 72 hrs		X	-
Sample ID	X			Client Name	X		-
Rush TAT		X	-	Address/Telephone #	X		-

Section 5 – Comments / Discrepancies

Was Client notified of discrepancies: N/A Notified by: N/A

Explanations / Comments:

-

w

-

Samples Labeled by:	**AS**
BIN	S16
COC Scanned/Attached by:	**AS**
Sample labels reviewed by:	**AS**

Filled out by: *Asia Sanchez* **Date:** 7/6/2018 **Time :** 11:58

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Excelchem
Environmental Labs

1135 W. Sunset Blvd. Suite A
Rocklin, CA 95765
Ph: 916-543-4445 Fx: 916-543-4449

CHAIN OF CUSTODY

Project Manager: Kyle Leach
Email Address for Reporting: kleach08@gmail.com
Email Address for Reporting:
Company Name & Address: Sierra Streams Institute, 13075 Wolfman Ln, Nevada City CA 95959
Billing Address: Same, Attn: Amber Aldridge
Phone #: 530 477 7132
Cell #: 530 575 5605
Fax #:
P.O# / Project Name: Crescent Mills Ind. Site
Project Location: Plumas County CA
Sampler Name: Kyle Leach
Sampler Signature:

REPORTING REQUIREMENTS BELOW:

- PDF / Standard Format
- Geotracker / EDF / Provide Global ID ___
- EDD / Equis / Data Table
- MDL Format
- Data to be reported to State's Database ? Yes___ No___
- EDT / CDPH - Provide Source Codes / PWS ID: ___

page 1 of 4

Matrix Table: S = Soil / Sludge / Solid (circle one), A = Air, DW = Drinking Water, MW = Monitoring Wells, GW = Groundwater, TW = Treated Water, WW = Waste Water

Preserved ? (Mark yes and no if both available)

SAMPLE ID:	Source Codes	SAMPLING DATE	SAMPLING TIME	Matrix (See Matrix Table)	Summa #	Tedlar / Summa	Coliform Tube	250ml plastic	500ml plastic	1000ml plastic	1 Gallon plastic	1 Liter Amber	40ml Voa - Clear	40ml Voa - Amber	250ml Amber	500ml Amber	Soil Jar	Metals Stic Total	TPH-diesel 8015
T2-F1		6/28/18		S													X		X
T2-F2																			X
T2-N																			X
T3-F1																			X
T3-F2																			X
T3-N																			X
T4-F1																			X
T4-F2																			X
T4-N																			X
T5-F1																			X
T5-F2																			X

ANALYSIS REQUST

Relinquished by: Kyle Leach — DATE 7/2/18 — TIME 1528
Relinquished by: — DATE 7/2/18 — TIME 1528
Received by: — DATE — TIME
Received by Laboratory: — DATE 7/2/18 — TIME 1528
Remarks:

LAB USE: Bin #: 1807022 BIN: S16
Microbiology
Work Order:

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Excelchem Environmental Labs

1135 W. Sunset Blvd. Suite A
Rocklin, CA 95765
Ph: 916-543-4445 Fx: 916-543-4449

CHAIN OF CUSTODY

Project Manager: Kyle Leach
Email Address for Reporting:
Email Address for Reporting:
Company Name & Address: SSI See page 1
Billing Address:
Phone #:
Cell #: 530 577 5605
Fax #:
P.O# / Project Name: Crescent Mills 15
Project Location:
Sampler Name: Kyle Leach
Sampler Signature:

REPORTING REQUIREMENTS BELOW:

- PDF / Standard Format
- Geotracker / EDF / Provide Global ID ___
- EDD / Equis / Data Table
- MDL Format
- Data to be reported to State's Database ? Yes ___ No ___
- EDT / CDPH - Provide Source Codes / PWS ID: ___

page 2 of 4

Matrix Table: S = Soil / Sludge / Solid (circle one), A = Air, DW = Drinking Water, MW = Monitoring Wells, GW = Groundwater, TW = Treated Water, WW = Waste Water

Preserved ? (Mark yes and no if both available)

ANALYSIS REQUST

SAMPLE ID:	Source Codes	SAMPLING DATE	SAMPLING TIME	Matrix (See Matrix Table)	Summa #	Tedlar / Summa	Coliform Tube	250ml plastic	500ml plastic	1000ml plastic	1 Gallon plastic	1 Liter Amber	40ml Voa - Clear	40ml Voa - Amber	250ml Amber	500ml Amber	Soil Jar	Metals Slc	Metals Total	TPH-diesel by 8015
T5-N		6-28-18		S													X			X
T6-F1		✓		✓													✓			X
T6-F2																				X
T6-N																				X
T7-F1																				X
T7-F2																				X
T7-N																				X
T8-F1																				X
T8-F2																				X
T8-N																	✓			X

Relinquished by: DATE 7/2/18 TIME 1528
Relinquished by: DATE 7/2/18 TIME 1528
Received by:
Received by Laboratory: Cordell Wilsdorff
Remarks:

LAB USE: Bin # :
Microbiology
Work Order:

BIN: 18070022

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Excelchem Environmental Labs

CHAIN OF CUSTODY

1135 W. Sunset Blvd. Suite A
Rocklin, CA 95765
Ph: 916-543-4445 Fx: 916-543-4449

Project Manager: Kyle Leach
Email Address for Reporting:
Email Address for Reporting:
Company Name & Address: SSI See page 1
Billing Address: see page 1
Phone #: 530 477 7132
Cell #: 575 5605
Fax #:
P.O# / Project Name: Crescent Mills I.S.
Project Location: Plumas
Sampler Name: Kyle Leach
Sampler Signature:

REPORTING REQUIREMENTS BELOW:

- PDF / Standard Format
- Geotracker / EDF / Provide Global ID
- EDD / Equis / Data Table
- MDL Format
- Data to be reported to State's Database ? Yes___ No___
- EDT / CDPH - Provide Source Codes / PWS ID:

page 3 of 4

Matrix Table: S # Soil / Sludge / Solid (circle one) A = Air DW = Drinking Water MW = Monitoring Wells GW = Groundwater TW = Treated Water WW = Waste Water

SAMPLE ID:	Source Codes	SAMPLING DATE	SAMPLING TIME	Matrix (See Matrix Table)	Summa #	Preserved ? (Mark yes and no if both available) Yes	No	Metals Stic	Total	ANALYSIS REQUST
Comp 1		6/28/18		S						
Comp 2										
Comp 3										
Comp 4										
Comp 5										
Comp 6										

Tedlar / Summa
Coliform Tube
250ml plastic
500ml plastic
1000ml plastic
1 Gallon plastic
1 Liter Amber
40ml Voa - Clear
40ml Voa - Amber
250ml Amber
500ml Amber
Soil Jar 4

Dioxins + Furans 1613/8290 (X)
PAHs + PCP 8270 (X)

Relinquished by: Kyle Leach — DATE 7/2/18 — TIME 1528
Relinquished by: — DATE 7/2/18 — TIME 1528
Received by:
Received by Laboratory: Cortney McDonald
Remarks: see Composite Sample Protocol Attached

BIN 5-6
1807022

LAB USE: Bin #:
Microbiology
Work Order:

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Sierra Streams Institute	Project:	Crescent Mills Industrial Site	
431 Uren St., Suite C	Project Number:	[none]	Date Reported:
Nevada City, CA 95959	Project Manager:	Kyle Leach	07/17/18 13:13

Excelchem
Environmental Labs

CHAIN OF CUSTODY

1135 W. Sunset Blvd. Suite A
Rocklin, CA 95765
Ph: 916-543-4445 Fx: 916-543-4449

Project Manager: Kyle Leach
Phone #:
Email Address for Reporting:
Cell #: 530 575 5605
Email Address for Reporting:
Fax #:
Company Name & Address: 551 see pg 1
P.O# / Project Name:
Billing Address: see pg 1
Project Location:
Sampler Name:
Sampler Signature:

REPORTING REQUIREMENTS BELOW:

- PDF / Standard Format
- Geotracker / EDF / Provide Global ID ___
- EDD / Equis / Data Table
- MDL Format
- Data to be reported to State's Database ? Yes ___ No ___
- EDT / CDPH - Provide Source Codes / PWS ID: ___

page 4 of 4

Matrix Table:
S = Soil / Sludge / Solid (circle one)
A = Air
DW = Drinking Water
MW = Monitoring Wells
GW = Groundwater
TW = Treated Water
WW = Waste Water

SAMPLE ID:	Source Codes	SAMPLING DATE	SAMPLING TIME	Matrix (See Matrix Table)	Summa #	Preserved ? (Mark yes and no if both available) Yes	No	Metals Stlc Total	ANALYSIS REQUST
EQB-1		6/28/18		WW					
					Tedlar / Summa				
					Coliform Tube				
				X	250ml plastic				
					500ml plastic				
					1000ml plastic				
					1 Gallon plastic				
				X	1 Liter Amber				
					40ml Voa - Clear				
					40ml Voa - Amber				
					250ml Amber				
					500ml Amber				
					Soil Jar				
				X	TPH-d by 8015				
				X	Total As				

Relinquished by: [signature] DATE 7/2/18 TIME 1528
Relinquished by: DATE 7/2/18 TIME 1528
Received by:
Received by Laboratory: [signature]
Remarks:

LAB USE:
Bin #: BIN S/C
Microbiology
Work Order: 1807022

Excelchem Environmental Lab

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Laboratory Representative