



Project No. S9850-03-21
August 18, 2017

Edward Benelli
Hazardous Substances Engineer
Hazardous Waste Management Program
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Subject: AIR MONITORING SUMMARY REPORT - ADDENDUM
SA RECYCLING - BAKERSFIELD
2000 E. BRUNDAGE LANE
BAKERSFIELD, CALIFORNIA 93307-2734
CONTRACT NO. 15-T4124 A-1

Dear Mr. Benelli:

On July, 26, 2017, Elio Torrealba with SA Recycling sent me an e-mail stating that he believes air monitoring samples SARB4-T1-PM2.5 and SARB4-T1-PM10 were mislabeled. These co-located samples were collected on October 6, 2016 as part of the first 24-hour air monitoring test performed at the SA Recycling facility (SARB) in Bakersfield, California. Mr. Torrealba stated that the analytical results for PM2.5 sample SARB4-T1-PM2.5 more closely resembled the analytical results for the other PM10 samples collected at SARB during the three tests. Similarly, the results for SARB4-T1-PM10 more closely resembled the analytical results for the other PM2.5 samples collected at SARB.

We have reviewed our records to see if there was any indication that the filters were switched. The filter ID in our field notes for SARB4-T1-PM2.5 is 220297067 and for SARB4-T1-PM10 is 220297072. These filter IDs are consistent with those listed on the chain-of-custody and in Chester LabNet's (CLN) analytical report. We also requested that CLN review their records to see if there was any indication that the filters may have been switched. Paul Duda with CLN stated that the PM10 and PM2.5 samples were digested during their beryllium analysis and that CLN does not keep the packaging so there was "no definitive way to confirm if the filters were switched or not. Considering that the supposed PM2.5 had a much higher mass than the PM10, it is highly likely that the two were switched but we can't say that is the case for sure."

We concur with Mr. Torrealba and Mr. Duda and believe that it is highly likely that the results reported for SARB4-T1-PM2.5 should have been reported for SARB4-T1-PM10, and vice-versa. As such, we recommend that the analytical results for sample SARB4-T1-PM2.5 be presented for sample SARB4-T1-PM10 and vice-versa. We have revised our tables and conclusions (sections 4.1.2 and 4.1.3) of our Air Monitoring Summary Report to reflect these changes. Revised Tables 2 and 3 are attached to this addendum and the revised conclusions are as follows:

4.1.2 PM10

- The greatest PM₁₀ concentrations were detected in samples from SARB2, followed by SARB4, SARB1, and SARB3.
- The greatest PM₁₀ concentrations were detected in T3, followed by T1, and T2.
- The five PM₁₀ metals with the greatest concentration were silicon at 11.33 µg/m³, iron at 6.078 µg/m³, aluminum at 4.423 µg/m³, calcium at 4.359 µg/m³, and potassium at 1.979 µg/m³.

4.1.3 PM2.5

- The greatest PM_{2.5} concentrations were detected in samples from SARB2, followed by SARB4, SARB1, and SARB3.
- The greatest PM_{2.5} concentrations were detected in T3, followed by T2, and T1.
- The five PM_{2.5} metals with the greatest concentration were iron at 1.7310 µg/m³, silicon at 1.5210 µg/m³, aluminum at 0.6352 µg/m³, calcium at 0.5947 µg/m³, and sulfur at 0.3770 µg/m³.

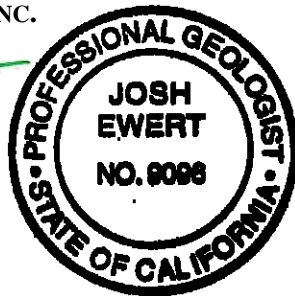
We appreciate the opportunity to work with the DTSC on this project and hope that this addendum adequately addresses this issue. Please let me know if you have questions concerning the report or we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.



Josh Ewert, PG
Senior Project Geologist



REVISED TABLES

2. Summary of Gravimetric and Metals Analytical Data – PM10
3. Summary of Gravimetric and Metals Analytical Data – PM2.5

TABLE 2
 SUMMARY OF GRAVIMETRIC AND METALS ANALYTICAL DATA - PM10
 DTSC METAL SHREDDING FACILITIES
 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Tare (mg)	Gross (mg)	Net (µg)	Volume (m ³)	Concentration (µg/m ³)	Sodium (Na) (µg/m ³)	Magnesium (Mg) (µg/m ³)	Aluminum (Al) (µg/m ³)	Silicon (Si) (µg/m ³)	Phosphorus (P) (µg/m ³)	Sulfur (S) (µg/m ³)
SARB1-T1-PM10	10/6/2016	387.836	390.386	2550	24	106	0.7825	1.3150	4.2290	10.5300	0.1116	0.7119
SARB1-T2-PM10	10/7/2016	381.396	383.595	2199	24	91.6	0.7858	1.1460	3.6520	9.4870	0.1070	0.7030
SARB1-T3-PM10	10/8/2016	376.454	378.880	2426	24	101	0.7251	1.1480	3.5780	9.0640	0.1030	0.7284
SARB2-T1-PM10	10/6/2016	390.039	392.571	2532	24	106	0.9520	1.4920	4.3760	11.2800	0.1118	0.6912
SARB2-T2-PM10	10/7/2016	385.093	387.548	2455	24	102	0.7943	1.2830	3.9850	10.1300	0.0997	0.6686
SARB2-T3-PM10	10/8/2016	370.099	372.830	2731	24	114	0.8508	1.4750	4.4230	11.3300	0.1146	0.7999
SARB3-T1-PM10	10/6/2016	380.821	382.948	2127	24	88.6	0.7792	1.2310	3.6370	9.3650	0.1119	0.6893
SARB3-T2-PM10	10/7/2016	368.083	370.361	2278	24	94.9	0.8338	1.2700	3.7410	9.5630	0.1065	0.7369
SARB3-T3-PM10	10/8/2016	373.243	375.991	2748	24	115	0.7656	1.3530	4.1880	10.6400	0.1133	0.8442
SARB4-T1-PM10 ²	10/6/2016	389.038	391.357	2319	24	96.6	0.7110	1.2200	3.8640	9.7650	0.1173	0.7025
SARB4-T2-PM10	10/7/2016	373.829	376.232	2403	24	100	0.7213	1.1070	3.6330	9.0490	0.0910	0.6380
SARB4-T3-PM10	10/8/2016	365.838	368.378	2540	24	106	0.7208	1.3280	4.2810	10.8100	0.1082	0.7552
<i>Field Duplicate</i>												
SARB5-T1-PM10	10/6/2016	380.362	383.170	2808	24	117	0.8936	1.5890	4.6960	12.1000	0.1077	0.6874
SARB5-T2-PM10	10/7/2016	346.197	348.681	2484	24	104	0.7609	1.2730	3.9850	10.3700	0.1046	0.6686
<i>Field Blank</i>												
SARB4-T1-PM10-FB 1	10/6/2016	385.466	385.482	16	---	---	0.5288	0.0000	0.0000	0.0000	0.0000	0.0000
SARB2-T3-PM10-FB 1	10/8/2016	380.177	380.195	18	---	---	0.0000	0.0000	0.0000	0.0045	0.0000	0.0102
<i>Trip Blank</i>												
SARB-TB-PM10 1	10/8/2016	385.841	385.848	7	---	---	0.0000	0.0000	0.0000	0.0136	0.0000	0.0000
<i>Lab Blank</i>												
Lab Blank ¹		384.164	384.167	3	---	---	0.1537	0.0599	0.0667	0.0000	0.0000	0.0000
Lab Blank ¹		377.016	377.015	-1	---	---	0.0000	0.0000	0.0000	0.0056	0.0000	0.0090
Lab Blank ¹		351.498	351.500	2	---	---	0.0000	0.0000	0.0000	0.0034	0.0000	0.0000
Lab Blank ¹		376.891	376.893	2	---	---	0.1514	0.0000	0.0000	0.0147	0.0000	0.0000

TABLE 2
 SUMMARY OF GRAVIMETRIC AND METALS ANALYTICAL DATA - PM10
 DTSC METAL SHREDDING FACILITIES
 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Chlorine (Cl) ($\mu\text{g}/\text{m}^3$)	Potassium (K) ($\mu\text{g}/\text{m}^3$)	Calcium (Ca) ($\mu\text{g}/\text{m}^3$)	Titanium (Ti) ($\mu\text{g}/\text{m}^3$)	Vanadium (V) ($\mu\text{g}/\text{m}^3$)	Chromium (Cr) ($\mu\text{g}/\text{m}^3$)	Manganese (Mn) ($\mu\text{g}/\text{m}^3$)	Iron (Fe) ($\mu\text{g}/\text{m}^3$)	Cobalt (Co) ($\mu\text{g}/\text{m}^3$)	Nickel (Ni) ($\mu\text{g}/\text{m}^3$)	Copper (Cu) ($\mu\text{g}/\text{m}^3$)
SARB1-T1-PM10	10/6/2016	0.3778	1.7200	4.1450	0.3445	0.0144	0.0117	0.0756	4.4050	0.0000	0.0086	0.2350
SARB1-T2-PM10	10/7/2016	0.2380	1.6020	3.4160	0.3474	0.0158	0.0099	0.1250	4.0610	0.0000	0.0045	0.1256
SARB1-T3-PM10	10/8/2016	0.2385	1.5160	3.1000	0.3144	0.0115	0.0073	0.0807	3.9130	0.0000	0.0038	0.1643
SARB2-T1-PM10	10/6/2016	0.4084	1.8640	4.0240	0.3731	0.0140	0.0091	0.0797	4.4740	0.0000	0.0043	0.0924
SARB2-T2-PM10	10/7/2016	0.2399	1.6000	3.6780	0.3413	0.0101	0.0107	0.0725	4.2150	0.0000	0.0041	0.0809
SARB2-T3-PM10	10/8/2016	0.3228	1.9790	3.9020	0.3988	0.0185	0.0100	0.1149	6.0270	0.0000	0.0067	0.1673
SARB3-T1-PM10	10/6/2016	0.3934	1.5690	3.3980	0.2994	0.0131	0.0091	0.0681	4.0400	0.0000	0.0251	0.0946
SARB3-T2-PM10	10/7/2016	0.5132	1.5610	3.6090	0.3252	0.0127	0.0106	0.0843	4.2980	0.0000	0.0072	0.1104
SARB3-T3-PM10	10/8/2016	0.2860	1.7930	4.3590	0.4132	0.0138	0.0130	0.1146	5.4050	0.0000	0.0067	0.1582
SARB4-T1-PM10 ²	10/6/2016	0.3472	1.6090	3.5110	0.3261	0.0143	0.0102	0.0741	4.4320	0.0000	0.0223	0.1536
SARB4-T2-PM10	10/7/2016	0.2027	1.4250	3.4860	0.3148	0.0130	0.0102	0.0951	3.9190	0.0000	0.0050	0.2088
SARB4-T3-PM10	10/8/2016	0.2404	1.8500	3.7620	0.4087	0.0168	0.0119	0.1486	6.0780	0.0000	0.0087	0.2002
<i>Field Duplicate</i>												
SARB5-T1-PM10	10/6/2016	0.4334	2.0250	4.4240	0.3967	0.0134	0.0121	0.0834	4.9580	0.0000	0.0056	0.1258
SARB5-T2-PM10	10/7/2016	0.2540	1.6730	3.8810	0.3383	0.0162	0.0091	0.0831	4.4170	0.0000	0.0045	0.1130
<i>Field Blank</i>												
SARB4-T1-PM10-FB 1	10/6/2016	0.0000	0.0000	0.0124	0.0000	0.0000	0.0090	0.0000	0.0045	0.0000	0.0000	0.0011
SARB2-T3-PM10-FB 1	10/8/2016	0.0102	0.0237	0.0599	0.0000	0.0203	0.0136	0.0124	0.0000	0.0000	0.0000	0.0011
<i>Trip Blank</i>												
SARB-TB-PM10 1	10/8/2016	0.0034	0.0000	0.0090	0.0000	0.0000	0.0090	0.0136	0.0068	0.0000	0.0000	0.0000
<i>Lab Blank</i>												
Lab Blank ¹		0.0023	0.0000	0.0000	0.0000	0.0000	0.0011	0.0011	0.0102	0.0124	0.0000	0.0000
Lab Blank ¹		0.0000	0.0000	0.0011	0.0000	0.0000	0.0000	0.0068	0.0000	0.0090	0.0000	0.0011
Lab Blank ¹		0.0260	0.0000	0.0000	0.0158	0.0000	0.0136	0.0000	0.0011	0.0000	0.0000	0.0000
Lab Blank ¹		0.0249	0.0000	0.0407	0.0000	0.0045	0.0045	0.0045	0.0203	0.0000	0.0034	0.0000

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 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Zinc (Zn) (µg/m ³)	Gallium (Ga) (µg/m ³)	Germanium (Ge) (µg/m ³)	Arsenic (As) (µg/m ³)	Selenium (Se) (µg/m ³)	Bromine (Br) (µg/m ³)	Rubidium (Rb) (µg/m ³)	Strontium (Sr) (µg/m ³)	Yttrium (Y) (µg/m ³)	Zirconium (Zr) (µg/m ³)	Molybdenum (Mo) (µg/m ³)
SARB1-T1-PM10	10/6/2016	0.2198	0.0022	0.0010	0.0008	0.0008	0.0069	0.0098	0.0318	0.0026	0.0090	0.0052
SARB1-T2-PM10	10/7/2016	0.1416	0.0017	0.0002	0.0033	0.0001	0.0086	0.0072	0.0295	0.0018	0.0121	0.0058
SARB1-T3-PM10	10/8/2016	0.1170	0.0018	0.0001	0.0035	0.0006	0.0098	0.0076	0.0258	0.0021	0.0121	0.0041
SARB2-T1-PM10	10/6/2016	0.1568	0.0024	0.0005	0.0021	0.0006	0.0061	0.0111	0.0355	0.0021	0.0146	0.0007
SARB2-T2-PM10	10/7/2016	0.1395	0.0018	0.0001	0.0024	0.0002	0.0081	0.0084	0.0308	0.0009	0.0135	0.0014
SARB2-T3-PM10	10/8/2016	0.1196	0.0015	0.0000	0.0056	0.0003	0.0103	0.0094	0.0346	0.0019	0.0189	0.0021
SARB3-T1-PM10	10/6/2016	0.1561	0.0015	0.0009	0.0024	0.0003	0.0066	0.0083	0.0291	0.0008	0.0112	0.0055
SARB3-T2-PM10	10/7/2016	0.2242	0.0018	0.0007	0.0011	0.0000	0.0190	0.0080	0.0280	0.0024	0.0123	0.0065
SARB3-T3-PM10	10/8/2016	0.2307	0.0025	0.0001	0.0056	0.0000	0.0110	0.0100	0.0335	0.0004	0.0177	0.0043
SARB4-T1-PM10 ²	10/6/2016	0.1814	0.0024	0.0002	0.0042	0.0004	0.0064	0.0091	0.0302	0.0019	0.0097	0.0062
SARB4-T2-PM10	10/7/2016	0.1654	0.0020	0.0000	0.0037	0.0008	0.0076	0.0077	0.0276	0.0021	0.0105	0.0005
SARB4-T3-PM10	10/8/2016	0.1445	0.0017	0.0002	0.0064	0.0007	0.0085	0.0098	0.0325	0.0011	0.0150	0.0021
<i>Field Duplicate</i>												
SARB5-T1-PM10	10/6/2016	0.1816	0.0017	0.0003	0.0007	0.0002	0.0062	0.0118	0.0376	0.0026	0.0117	0.0000
SARB5-T2-PM10	10/7/2016	0.1456	0.0018	0.0001	0.0042	0.0008	0.0078	0.0084	0.0312	0.0020	0.0149	0.0064
<i>Field Blank</i>												
SARB4-T1-PM10-FB 1	10/6/2016	0.0000	0.0079	0.0136	0.0000	0.0000	0.0000	0.0011	0.0000	0.0181	0.0000	0.0000
SARB2-T3-PM10-FB 1	10/8/2016	0.0000	0.0034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0034	0.0000	0.0147	0.0000
<i>Trip Blank</i>												
SARB-TB-PM10 1	10/8/2016	0.0034	0.0056	0.0000	0.0000	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0056
<i>Lab Blank</i>												
Lab Blank ¹		0.0000	0.0000	0.0079	0.0034	0.0000	0.0000	0.0045	0.0000	0.0023	0.0000	0.0000
Lab Blank ¹		0.0000	0.0023	0.0056	0.0000	0.0000	0.0000	0.0045	0.0000	0.0113	0.0000	0.0000
Lab Blank ¹		0.0011	0.0056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Lab Blank ¹		0.0034	0.0000	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0090	0.0000

TABLE 2
 SUMMARY OF GRAVIMETRIC AND METALS ANALYTICAL DATA - PM10
 DTSC METAL SHREDDING FACILITIES
 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Palladium (Pd) ($\mu\text{g}/\text{m}^3$)	Silver (Ag) ($\mu\text{g}/\text{m}^3$)	Cadmium (Cd) ($\mu\text{g}/\text{m}^3$)	Indium (In) ($\mu\text{g}/\text{m}^3$)	Tin (Sn) ($\mu\text{g}/\text{m}^3$)	Antimony (Sb) ($\mu\text{g}/\text{m}^3$)	Barium (Ba) ($\mu\text{g}/\text{m}^3$)	Lanthanum (La) ($\mu\text{g}/\text{m}^3$)	Mercury (Hg) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Beryllium (Be) ($\mu\text{g}/\text{m}^3$)
SARB1-T1-PM10	10/6/2016	0.0020	0.0000	0.0004	0.0012	0.0016	0.0000	0.0823	0.0000	0.0005	0.0535	<0.00033
SARB1-T2-PM10	10/7/2016	0.0021	0.0008	0.0000	0.0002	0.0000	0.0000	0.1157	0.0000	0.0000	0.0202	<0.00033
SARB1-T3-PM10	10/8/2016	0.0000	0.0032	0.0000	0.0012	0.0000	0.0040	0.0945	0.0000	0.0004	0.0173	<0.00033
SARB2-T1-PM10	10/6/2016	0.0000	0.0016	0.0000	0.0033	0.0067	0.0000	0.1016	0.0000	0.0000	0.0202	<0.00033
SARB2-T2-PM10	10/7/2016	0.0000	0.0001	0.0019	0.0021	0.0010	0.0045	0.0905	0.0000	0.0000	0.0192	<0.00033
SARB2-T3-PM10	10/8/2016	0.0018	0.0059	0.0007	0.0002	0.0109	0.0033	0.1308	0.0000	0.0004	0.0143	<0.00033
SARB3-T1-PM10	10/6/2016	0.0000	0.0002	0.0022	0.0019	0.0029	0.0030	0.0764	0.0000	0.0000	0.0241	<0.00033
SARB3-T2-PM10	10/7/2016	0.0000	0.0000	0.0008	0.0010	0.0039	0.0438	0.1018	0.0000	0.0000	0.0518	<0.00033
SARB3-T3-PM10	10/8/2016	0.0014	0.0016	0.0000	0.0000	0.0000	0.0031	0.1096	0.0000	0.0000	0.0266	<0.00033
SARB4-T1-PM10 ²	10/6/2016	0.0000	0.0006	0.0000	0.0045	0.0105	0.0000	0.0734	0.0000	0.0006	0.0325	<0.00033
SARB4-T2-PM10	10/7/2016	0.0000	0.0001	0.0000	0.0000	0.0170	0.0000	0.0899	0.0000	0.0000	0.0331	<0.00033
SARB4-T3-PM10	10/8/2016	0.0000	0.0020	0.0021	0.0000	0.0031	0.0072	0.1082	0.0000	0.0003	0.0232	<0.00033
<i>Field Duplicate</i>												
SARB5-T1-PM10	10/6/2016	0.0000	0.0014	0.0000	0.0000	0.0053	0.0014	0.1016	0.0000	0.0000	0.0301	<0.00033
SARB5-T2-PM10	10/7/2016	0.0000	0.0000	0.0028	0.0000	0.0048	0.0056	0.1229	0.0000	0.0004	0.0188	<0.00033
<i>Field Blank</i>												
SARB4-T1-PM10-FB 1	10/6/2016	0.0000	0.0542	0.0610	0.0000	0.0000	0.3277	0.0045	0.0000	0.0000	0.0237	<0.008
SARB2-T3-PM10-FB 1	10/8/2016	0.0136	0.0249	0.0463	0.0734	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	<0.008
<i>Trip Blank</i>												
SARB-TB-PM10 1	10/8/2016	0.0000	0.0000	0.0181	0.0000	0.0362	0.0000	0.0000	0.0000	0.0011	0.0000	<0.008
<i>Lab Blank</i>												
Lab Blank ¹		0.0000	0.0079	0.0000	0.0000	0.0000	0.0565	0.0000	0.0000	0.0000	0.0000	<0.008
Lab Blank ¹		0.0090	0.0802	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0056	<0.008
Lab Blank ¹		0.0000	0.0328	0.0508	0.0000	0.0000	0.0226	0.0000	0.0000	0.0000	0.0056	<0.008
Lab Blank ¹		0.0000	0.0452	0.0000	0.0000	0.0497	0.0000	0.0000	0.0000	0.0079	0.0102	<0.008

Notes: g = grams $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter **Highlighted** = concentrations are less than three times the uncertainty
 m^3 = cubic meters --- = not sampled/tested *Italics* = Quality assurance/quality control samples
 μg = micrograms ¹ = units for these QA/QC samples are $\mu\text{g}/\text{filter}$ < = Less than the laboratory reporting limit
² = Analytical results shown for SARB4-T1-PM10 were reported as SARB4-T1-PM2.5. These filters appear to have been accidentally switched during the air monitoring and analysis.

TABLE 3
 SUMMARY OF GRAVIMETRIC AND METALS ANALYTICAL DATA - PM2.5
 DTSC METAL SHREDDING FACILITIES
 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Tare (mg)	Gross (mg)	Net (µg)	Volume (m ³)	Concentration (µg/m ³)	Sodium (Na) (µg/m ³)	Magnesium (Mg) (µg/m ³)	Aluminum (Al) (µg/m ³)	Silicon (Si) (µg/m ³)	Phosphorus (P) (µg/m ³)	Sulfur (S) (µg/m ³)
SARB1-T1-PM2.5	10/6/2016	378.745	379.092	347	24	14.5	0.2087	0.1355	0.4092	0.9068	0.0153	0.2719
SARB1-T2-PM2.5	10/7/2016	379.413	379.773	360	24	15.0	0.2173	0.1423	0.3035	0.7778	0.0185	0.3214
SARB1-T3-PM2.5	10/8/2016	385.587	386.061	474	24	19.8	0.1410	0.1611	0.4149	0.9803	0.0220	0.3674
SARB2-T1-PM2.5	10/6/2016	376.706	377.047	341	24	14.2	0.2196	0.1872	0.4374	1.0480	0.0173	0.2691
SARB2-T2-PM2.5	10/7/2016	372.657	373.069	412	24	17.2	0.2318	0.1735	0.4082	0.9633	0.0168	0.3095
SARB2-T3-PM2.5	10/8/2016	372.731	373.317	586	24	24.4	0.2249	0.2530	0.6352	1.5210	0.0261	0.3674
SARB3-T1-PM2.5	10/6/2016	388.979	389.280	301	24	12.5	0.2197	0.1262	0.3057	0.7387	0.0162	0.2604
SARB3-T2-PM2.5	10/7/2016	379.110	379.498	388	24	16.2	0.2221	0.1670	0.3570	0.8367	0.0186	0.3390
SARB3-T3-PM2.5	10/8/2016	372.214	372.678	464	24	19.3	0.2163	0.1680	0.3867	0.9355	0.0196	0.3455
SARB4-T1-PM2.5 ²	10/6/2016	380.688	381.000	312	24	13.0	0.1923	0.1209	0.2956	0.7006	0.0156	0.2662
SARB4-T2-PM2.5	10/7/2016	374.623	375.048	425	24	17.7	0.2291	0.1552	0.4017	0.9238	0.0189	0.3046
SARB4-T3-PM2.5	10/8/2016	373.827	374.330	503	24	21.0	0.2355	0.1826	0.4492	1.0740	0.0206	0.3770
<i>Field Duplicate</i>												
SARB5-T1-PM2.5	10/6/2016	379.488	379.852	364	24	15.2	0.2584	0.2056	0.4641	1.1220	0.0178	0.2739
SARB5-T2-PM2.5	10/7/2016	369.964	370.368	404	24	16.8	0.1989	0.1755	0.3989	0.9953	0.0182	0.3025
<i>Field Blank</i>												
SARB4-T1-PM2.5-FB	10/6/2016	378.447	378.464	17	---	---	0.0000	0.0000	0.0000	0.0644	0.0000	0.0000
SARB2-T3-PM2.5-FB	10/8/2016	369.194	369.205	11	---	---	0.3232	0.1254	0.0000	0.0362	0.0000	0.0000
<i>Trip Blank</i>												
SARB-TB-PM2.5 ¹	10/8/2016	382.136	382.144	8	---	---	0.5040	0.0000	0.0000	0.0079	0.0000	0.0000
<i>Lab Blank</i>												
Lab Blank ¹		384.164	384.167	3	---	---	0.1537	0.0599	0.0667	0.0000	0.0000	0.0000
Lab Blank ¹		377.016	377.015	-1	---	---	0.0000	0.0000	0.0000	0.0056	0.0000	0.0090
Lab Blank ¹		351.498	351.500	2	---	---	0.0000	0.0000	0.0000	0.0034	0.0000	0.0000
Lab Blank ¹		376.891	376.893	2	---	---	0.1514	0.0000	0.0000	0.0147	0.0000	0.0000

TABLE 3
 SUMMARY OF GRAVIMETRIC AND METALS ANALYTICAL DATA - PM2.5
 DTSC METAL SHREDDING FACILITIES
 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Chlorine (Cl) ($\mu\text{g}/\text{m}^3$)	Potassium (K) ($\mu\text{g}/\text{m}^3$)	Calcium (Ca) ($\mu\text{g}/\text{m}^3$)	Titanium (Ti) ($\mu\text{g}/\text{m}^3$)	Vanadium (V) ($\mu\text{g}/\text{m}^3$)	Chromium (Cr) ($\mu\text{g}/\text{m}^3$)	Manganese (Mn) ($\mu\text{g}/\text{m}^3$)	Iron (Fe) ($\mu\text{g}/\text{m}^3$)	Cobalt (Co) ($\mu\text{g}/\text{m}^3$)	Nickel (Ni) ($\mu\text{g}/\text{m}^3$)	Copper (Cu) ($\mu\text{g}/\text{m}^3$)
SARB1-T1-PM2.5	10/6/2016	0.0577	0.1790	0.4831	0.0291	0.0010	0.0031	0.0099	0.5010	0.0000	0.0032	0.0524
SARB1-T2-PM2.5	10/7/2016	0.0338	0.1788	0.3123	0.0337	0.0000	0.0011	0.0661	0.5725	0.0000	0.0008	0.0367
SARB1-T3-PM2.5	10/8/2016	0.0592	0.2246	0.3807	0.0368	0.0016	0.0011	0.0237	0.6804	0.0000	0.0004	0.0614
SARB2-T1-PM2.5	10/6/2016	0.0503	0.2014	0.4271	0.0367	0.0009	0.0002	0.0100	0.5245	0.0000	0.0007	0.0235
SARB2-T2-PM2.5	10/7/2016	0.0394	0.1897	0.4024	0.0363	0.0005	0.0019	0.0160	0.5193	0.0000	0.0008	0.0252
SARB2-T3-PM2.5	10/8/2016	0.0573	0.3190	0.5947	0.0597	0.0031	0.0023	0.0498	1.7310	0.0000	0.0030	0.0741
SARB3-T1-PM2.5	10/6/2016	0.0468	0.1625	0.3127	0.0238	0.0010	0.0026	0.0105	0.5386	0.0000	0.0150	0.0282
SARB3-T2-PM2.5	10/7/2016	0.2067	0.1783	0.3551	0.0283	0.0008	0.0013	0.0223	0.6319	0.0000	0.0034	0.0446
SARB3-T3-PM2.5	10/8/2016	0.0570	0.2117	0.3962	0.0404	0.0011	0.0018	0.0408	0.9054	0.0000	0.0019	0.0554
SARB4-T1-PM2.5 ²	10/6/2016	0.0407	0.1521	0.3074	0.0224	0.0016	0.0024	0.0097	0.5867	0.0000	0.0145	0.0323
SARB4-T2-PM2.5	10/7/2016	0.0366	0.1918	0.4034	0.0387	0.0017	0.0007	0.0412	0.5989	0.0000	0.0009	0.0287
SARB4-T3-PM2.5	10/8/2016	0.0608	0.2556	0.4205	0.0495	0.0026	0.0025	0.0766	1.5730	0.0000	0.0038	0.0766
<i>Field Duplicate</i>												
SARB5-T1-PM2.5	10/6/2016	0.0583	0.2128	0.4623	0.0385	0.0009	0.0019	0.0103	0.5570	0.0000	0.0008	0.0338
SARB5-T2-PM2.5	10/7/2016	0.0347	0.1954	0.4212	0.0314	0.0011	0.0005	0.0174	0.5287	0.0000	0.0006	0.0374
<i>Field Blank</i>												
SARB4-T1-PM2.5-FB ¹	10/6/2016	0.0034	0.0011	0.0418	0.0102	0.0000	0.0147	0.0011	0.0056	0.0000	0.0000	0.0034
SARB2-T3-PM2.5-FB ¹	10/8/2016	0.0531	0.0000	0.0000	0.0000	0.0023	0.0000	0.0045	0.0023	0.0000	0.0000	0.0000
<i>Trip Blank</i>												
SARB-TB-PM2.5 ¹	10/8/2016	0.0124	0.0000	0.0339	0.0000	0.0000	0.0056	0.0000	0.0034	0.0045	0.0000	0.0000
<i>Lab Blank</i>												
Lab Blank ¹		0.0023	0.0000	0.0000	0.0000	0.0000	0.0011	0.0011	0.0102	0.0124	0.0000	0.0000
Lab Blank ¹		0.0000	0.0000	0.0011	0.0000	0.0000	0.0000	0.0068	0.0000	0.0090	0.0000	0.0011
Lab Blank ¹		0.0260	0.0000	0.0000	0.0158	0.0000	0.0136	0.0000	0.0011	0.0000	0.0000	0.0000
Lab Blank ¹		0.0249	0.0000	0.0407	0.0000	0.0045	0.0045	0.0045	0.0203	0.0000	0.0034	0.0000

TABLE 3
 SUMMARY OF GRAVIMETRIC AND METALS ANALYTICAL DATA - PM2.5
 DTSC METAL SHREDDING FACILITIES
 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Zinc (Zn) (µg/m ³)	Gallium (Ga) (µg/m ³)	Germanium (Ge) (µg/m ³)	Arsenic (As) (µg/m ³)	Selenium (Se) (µg/m ³)	Bromine (Br) (µg/m ³)	Rubidium (Rb) (µg/m ³)	Strontium (Sr) (µg/m ³)	Yttrium (Y) (µg/m ³)	Zirconium (Zr) (µg/m ³)	Molybdenum (Mo) (µg/m ³)
SARB1-T1-PM2.5	10/6/2016	0.0456	0.0000	0.0007	0.0005	0.0004	0.0031	0.0009	0.0028	0.0000	0.0022	0.0000
SARB1-T2-PM2.5	10/7/2016	0.0305	0.0000	0.0002	0.0016	0.0004	0.0062	0.0003	0.0022	0.0000	0.0026	0.0003
SARB1-T3-PM2.5	10/8/2016	0.0392	0.0000	0.0005	0.0037	0.0004	0.0071	0.0006	0.0029	0.0004	0.0032	0.0012
SARB2-T1-PM2.5	10/6/2016	0.0331	0.0000	0.0000	0.0002	0.0000	0.0032	0.0007	0.0032	0.0008	0.0039	0.0000
SARB2-T2-PM2.5	10/7/2016	0.0293	0.0002	0.0000	0.0013	0.0002	0.0056	0.0007	0.0043	0.0004	0.0014	0.0000
SARB2-T3-PM2.5	10/8/2016	0.0334	0.0007	0.0008	0.0034	0.0000	0.0083	0.0007	0.0048	0.0000	0.0041	0.0000
SARB3-T1-PM2.5	10/6/2016	0.0301	0.0003	0.0002	0.0019	0.0002	0.0035	0.0014	0.0024	0.0003	0.0024	0.0039
SARB3-T2-PM2.5	10/7/2016	0.0569	0.0008	0.0008	0.0002	0.0000	0.0161	0.0004	0.0030	0.0000	0.0026	0.0037
SARB3-T3-PM2.5	10/8/2016	0.0321	0.0000	0.0002	0.0024	0.0008	0.0068	0.0014	0.0029	0.0000	0.0027	0.0005
SARB4-T1-PM2.5 ²	10/6/2016	0.0328	0.0003	0.0003	0.0003	0.0000	0.0038	0.0006	0.0019	0.0002	0.0023	0.0022
SARB4-T2-PM2.5	10/7/2016	0.0337	0.0002	0.0000	0.0000	0.0002	0.0048	0.0011	0.0023	0.0000	0.0000	0.0000
SARB4-T3-PM2.5	10/8/2016	0.0484	0.0001	0.0008	0.0041	0.0000	0.0078	0.0015	0.0035	0.0000	0.0033	0.0005
<i>Field Duplicate</i>												
SARB5-T1-PM2.5	10/6/2016	0.0352	0.0002	0.0000	0.0002	0.0000	0.0034	0.0007	0.0038	0.0001	0.0023	0.0014
SARB5-T2-PM2.5	10/7/2016	0.0291	0.0000	0.0004	0.0025	0.0000	0.0049	0.0012	0.0026	0.0008	0.0022	0.0015
<i>Field Blank</i>												
SARB4-T1-PM2.5-FB ¹	10/6/2016	0.0000	0.0000	0.0056	0.0000	0.0000	0.0000	0.0023	0.0034	0.0000	0.0000	0.0000
SARB2-T3-PM2.5-FB ¹	10/8/2016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0023	0.0034	0.0045	0.0000	0.0000
<i>Trip Blank</i>												
SARB-TB-PM2.5 ¹	10/8/2016	0.0000	0.0102	0.0000	0.0000	0.0000	0.0034	0.0000	0.0000	0.0000	0.0000	0.0000
<i>Lab Blank</i>												
Lab Blank ¹		0.0000	0.0000	0.0079	0.0034	0.0000	0.0000	0.0045	0.0000	0.0023	0.0000	0.0000
Lab Blank ¹		0.0000	0.0023	0.0056	0.0000	0.0000	0.0000	0.0045	0.0000	0.0113	0.0000	0.0000
Lab Blank ¹		0.0011	0.0056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Lab Blank ¹		0.0034	0.0000	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0090	0.0000

TABLE 3
 SUMMARY OF GRAVIMETRIC AND METALS ANALYTICAL DATA - PM2.5
 DTSC METAL SHREDDING FACILITIES
 SA RECYCLING BAKERSFIELD (SARB), 2000 E. BRUNDAGE LANE, BAKERSFIELD, CALIFORNIA
 CONTRACT NO. 15-T4124

Client ID	Sample Date	Palladium (Pd) (µg/m ³)	Silver (Ag) (µg/m ³)	Cadmium (Cd) (µg/m ³)	Indium (In) (µg/m ³)	Tin (Sn) (µg/m ³)	Antimony (Sb) (µg/m ³)	Barium (Ba) (µg/m ³)	Lanthanum (La) (µg/m ³)	Mercury (Hg) (µg/m ³)	Lead (Pb) (µg/m ³)	Beryllium (Be) (µg/m ³)
SARB1-T1-PM2.5	10/6/2016	0.0000	0.0000	0.0000	0.0000	0.0017	0.0009	0.0139	0.0000	0.0002	0.0128	<0.00033
SARB1-T2-PM2.5	10/7/2016	0.0000	0.0014	0.0000	0.0000	0.0000	0.0028	0.0177	0.0000	0.0000	0.0038	<0.00033
SARB1-T3-PM2.5	10/8/2016	0.0003	0.0016	0.0036	0.0000	0.0033	0.0048	0.0215	0.0000	0.0012	0.0039	<0.00033
SARB2-T1-PM2.5	10/6/2016	0.0000	0.0000	0.0000	0.0000	0.0020	0.0000	0.0178	0.0000	0.0000	0.0066	<0.00033
SARB2-T2-PM2.5	10/7/2016	0.0017	0.0000	0.0000	0.0000	0.0006	0.0000	0.0211	0.0000	0.0000	0.0039	<0.00033
SARB2-T3-PM2.5	10/8/2016	0.0000	0.0000	0.0000	0.0000	0.0010	0.0049	0.0386	0.0000	0.0000	0.0051	<0.00033
SARB3-T1-PM2.5	10/6/2016	0.0000	0.0000	0.0000	0.0000	0.0053	0.0066	0.0150	0.0000	0.0000	0.0041	<0.00033
SARB3-T2-PM2.5	10/7/2016	0.0000	0.0000	0.0028	0.0000	0.0156	0.0504	0.0198	0.0000	0.0000	0.0292	<0.00033
SARB3-T3-PM2.5	10/8/2016	0.0000	0.0002	0.0015	0.0002	0.0043	0.0056	0.0259	0.0000	0.0000	0.0079	<0.00033
SARB4-T1-PM2.5 ²	10/6/2016	0.0000	0.0000	0.0000	0.0000	0.0020	0.0089	0.0134	0.0011	0.0000	0.0090	<0.00033
SARB4-T2-PM2.5	10/7/2016	0.0003	0.0010	0.0000	0.0000	0.0029	0.0056	0.0170	0.0000	0.0000	0.0107	<0.00033
SARB4-T3-PM2.5	10/8/2016	0.0000	0.0020	0.0058	0.0000	0.0081	0.0000	0.0234	0.0000	0.0000	0.0086	<0.00033
<i>Field Duplicate</i>												
SARB5-T1-PM2.5	10/6/2016	0.0000	0.0000	0.0028	0.0031	0.0034	0.0028	0.0193	0.0000	0.0000	0.0069	<0.00033
SARB5-T2-PM2.5	10/7/2016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0085	0.0282	0.0000	0.0000	0.0040	<0.00033
<i>Field Blank</i>												
SARB4-T1-PM2.5-FB ¹	10/6/2016	0.0000	0.0079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0034	0.0000	<0.008
SARB2-T3-PM2.5-FB ¹	10/8/2016	0.0000	0.0463	0.0000	0.0000	0.0475	0.0000	0.0000	0.0158	0.0090	0.0000	<0.008
<i>Trip Blank</i>												
SARB-TB-PM2.5 ¹	10/8/2016	0.0045	0.0000	0.0000	0.0000	0.0000	0.1808	0.0000	0.0000	0.0000	0.0000	<0.008
<i>Lab Blank</i>												
Lab Blank ¹		0.0000	0.0079	0.0000	0.0000	0.0000	0.0565	0.0000	0.0000	0.0000	0.0000	<0.008
Lab Blank ¹		0.0090	0.0802	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0056	<0.008
Lab Blank ¹		0.0000	0.0328	0.0508	0.0000	0.0000	0.0226	0.0000	0.0000	0.0000	0.0056	<0.008
Lab Blank ¹		0.0000	0.0452	0.0000	0.0000	0.0497	0.0000	0.0000	0.0000	0.0079	0.0102	<0.008

Notes: g = grams µg/m³ = micrograms per cubic meter **Highlighted** = concentrations are less than three times the uncertainty
 m³ = cubic meters --- = not sampled/tested *Italics* = Quality assurance/quality control samples
 µg = micrograms ¹ = units for these QA/QC samples are µg/filter < = Less than the laboratory reporting limit
² = Analytical results shown for SARB4-T1-PM2.5 were reported as SARB4-T1-PM10. These filters appear to have been accidentally switched during the air monitoring and analysis.