

GLOBAL COMMUNITY MONITOR

CLIENT # G029
REPORT # 10-339

SUBMITTED BY:

CHESTER LabNet

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Case Narrative


Date: December 8, 2010

General Information

Client: Global Community Monitor
Client Number: G029
Report Number: 10-339
Sample Description: 47mm Teflon Filters
Sample Numbers: 09-T4080, 09-T4083, 09-T4086, 09-T4089

Analysis

Analytes: XRF Metals (Na - Pb)
Analytical Protocols: X-Ray Fluorescence
Analytical Notes: No problems were encountered during the analyses. Results have **not** been blank corrected.
QA/QC Review: All of the data have been reviewed by the analysts performing the analyses and the project manager. All of the quality control and sample-specific information in this package is complete and meets or exceeds the minimum requirements for acceptability.
Comments: If you have any questions or concerns regarding this analysis, please feel free to contact the project manager.
Disclaimer: This report shall not be reproduced, except in full, without the written approval of the laboratory. The results only represent that of the samples as received into the laboratory.


Project Manager
Paul Duda

12/8/10
Date

Client: G029 - Global Community Monitor
Report Number: 10-339

Lab ID: 09-T4080
Client ID: #1
Filter ID: P8101415
Site: Top of house of Mr. Pawan Kumar
Sample Date: 11/13/10 - 11/14/10
Filter Lot #: 6336008
Volume: 7.200 +/- 0.720 m³
Deposit Area: 11.3 cm²
Size Fraction: PM10
Comments: West side ~250 mts of Jaypee
Cement grinding & baking @ Bagheri

Analyte	<u>µg/filter</u>	<u>percent</u>	<u>µg/m³</u>
Gravimetry			
Net Mass	2,970. ± 10.		412.5 ± 41.27
XRF			
Na	27.39 ± 6.807	0.9223 ± 0.2292	3.804 ± 1.019
Mg	33.31 ± 3.974	1.122 ± 0.1339	4.627 ± 0.7202
Al	138.9 ± 11.64	4.676 ± 0.3922	19.29 ± 2.517
Si	305.4 ± 21.10	10.28 ± 0.7112	42.42 ± 5.156
* P	0.0000 ± 0.2723	0.0000 ± 0.0092	0.0000 ± 0.0378
S	37.79 ± 2.901	1.272 ± 0.0978	5.248 ± 0.6616
Cl	2.714 ± 0.2768	0.0914 ± 0.0093	0.3770 ± 0.0538
K	63.65 ± 3.370	2.143 ± 0.1137	8.841 ± 1.000
Ca	658.0 ± 48.60	22.15 ± 1.638	91.39 ± 11.36
Ti	11.89 ± 0.6079	0.4003 ± 0.0205	1.651 ± 0.1854
V	0.4430 ± 0.0655	0.0149 ± 0.0022	0.0615 ± 0.0110
Cr	0.8611 ± 0.0622	0.0290 ± 0.0021	0.1196 ± 0.0147
Mn	4.425 ± 0.3288	0.1490 ± 0.0111	0.6146 ± 0.0766
Fe	91.82 ± 4.596	3.092 ± 0.1551	12.75 ± 1.426
* Co	0.0000 ± 0.0588	0.0000 ± 0.0020	0.0000 ± 0.0082
Ni	0.5413 ± 0.0429	0.0182 ± 0.0014	0.0752 ± 0.0096
Cu	0.1141 ± 0.0249	0.0038 ± 0.0008	0.0159 ± 0.0038
Zn	1.637 ± 0.0870	0.0551 ± 0.0029	0.2274 ± 0.0258
Ga	0.0554 ± 0.0147	0.0019 ± 0.0005	0.0077 ± 0.0022
* Ge	0.0000 ± 0.0147	0.0000 ± 0.0005	0.0000 ± 0.0020
* As	0.0000 ± 0.0170	0.0000 ± 0.0006	0.0000 ± 0.0024
* Se	0.0147 ± 0.0090	0.0005 ± 0.0003	0.0020 ± 0.0013
Br	0.0994 ± 0.0090	0.0033 ± 0.0003	0.0138 ± 0.0019
Rb	0.3469 ± 0.0203	0.0117 ± 0.0007	0.0482 ± 0.0056
Sr	1.864 ± 0.0949	0.0628 ± 0.0032	0.2590 ± 0.0291
Y	0.0712 ± 0.0113	0.0024 ± 0.0004	0.0099 ± 0.0019
Zr	0.4068 ± 0.0249	0.0137 ± 0.0008	0.0565 ± 0.0066
* Mo	0.0000 ± 0.0170	0.0000 ± 0.0006	0.0000 ± 0.0024
* Pd	0.2463 ± 0.0836	0.0083 ± 0.0028	0.0342 ± 0.0121
* Ag	0.1932 ± 0.0825	0.0065 ± 0.0028	0.0268 ± 0.0118
* Cd	0.1593 ± 0.0825	0.0054 ± 0.0028	0.0221 ± 0.0117
* In	0.1446 ± 0.0893	0.0049 ± 0.0030	0.0201 ± 0.0126
* Sn	0.2350 ± 0.1006	0.0079 ± 0.0034	0.0326 ± 0.0143
Sb	0.5243 ± 0.1130	0.0177 ± 0.0038	0.0728 ± 0.0173
Ba	2.178 ± 0.5130	0.0733 ± 0.0173	0.3024 ± 0.0774
* La	0.3254 ± 0.3978	0.0110 ± 0.0134	0.0452 ± 0.0554
Hg	0.5028 ± 0.0384	0.0169 ± 0.0013	0.0698 ± 0.0088
Pb	0.4384 ± 0.0362	0.0148 ± 0.0012	0.0609 ± 0.0079

* - Concentration is less than three times the uncertainty

Lab ID: 09-T4083
 Client ID: #2
 Filter ID: P8101418
 Site: Top of House of Mr. Pawan Kumar
 Sample Date: 11/14/10 - 11/15/10
 Filter Lot #: 6336008
 Volume: 7.200 +/- 0.720 m³
 Deposit Area: 11.3 cm²
 Size Fraction: PM2.5
 Comments: West ~250mts of Jaypee
 Cement grinidng & Baking at Bagheri

Analyte	<u>µg/filter</u>	<u>percent</u>	<u>µg/m³</u>
Gravimetry			
Net Mass	3,137. ± 10.		435.7 ± 43.59
XRF			
* Na	0.0000 ± 5.106	0.0000 ± 0.1628	0.0000 ± 0.7092
Mg	34.25 ± 5.670	1.092 ± 0.1808	4.757 ± 0.9201
Al	152.6 ± 13.55	4.863 ± 0.4322	21.19 ± 2.834
Si	362.1 ± 25.94	11.54 ± 0.8279	50.28 ± 6.186
* P	0.0000 ± 0.5119	0.0000 ± 0.0163	0.0000 ± 0.0711
S	66.09 ± 5.052	2.107 ± 0.1612	9.180 ± 1.155
* Cl	1.086 ± 0.4170	0.0346 ± 0.0133	0.1508 ± 0.0598
K	102.8 ± 7.873	3.278 ± 0.2512	14.28 ± 1.799
Ca	1129. ± 85.03	35.99 ± 2.713	156.8 ± 19.63
Ti	12.18 ± 0.6328	0.3883 ± 0.0202	1.692 ± 0.1907
V	0.4509 ± 0.0960	0.0144 ± 0.0031	0.0626 ± 0.0147
Cr	1.660 ± 0.1130	0.0529 ± 0.0036	0.2306 ± 0.0279
Mn	6.712 ± 0.5006	0.2140 ± 0.0160	0.9322 ± 0.1163
Fe	113.8 ± 5.700	3.627 ± 0.1821	15.80 ± 1.768
* Co	0.2068 ± 0.0757	0.0066 ± 0.0024	0.0287 ± 0.0109
Ni	0.7288 ± 0.0565	0.0232 ± 0.0018	0.1012 ± 0.0128
* Cu	0.0859 ± 0.0294	0.0027 ± 0.0009	0.0119 ± 0.0043
Zn	1.545 ± 0.0836	0.0492 ± 0.0027	0.2145 ± 0.0244
Ga	0.1074 ± 0.0215	0.0034 ± 0.0007	0.0149 ± 0.0033
* Ge	0.0000 ± 0.0215	0.0000 ± 0.0007	0.0000 ± 0.0030
* As	0.0000 ± 0.0260	0.0000 ± 0.0008	0.0000 ± 0.0036
* Se	0.0170 ± 0.0124	0.0005 ± 0.0004	0.0024 ± 0.0017
Br	0.1006 ± 0.0124	0.0032 ± 0.0004	0.0140 ± 0.0022
Rb	0.6226 ± 0.0350	0.0198 ± 0.0011	0.0865 ± 0.0099
Sr	3.044 ± 0.1548	0.0970 ± 0.0049	0.4228 ± 0.0474
Y	0.0734 ± 0.0170	0.0023 ± 0.0005	0.0102 ± 0.0026
Zr	0.4091 ± 0.0294	0.0130 ± 0.0009	0.0568 ± 0.0070
* Mo	0.0000 ± 0.0249	0.0000 ± 0.0008	0.0000 ± 0.0035
* Pd	0.1887 ± 0.0938	0.0060 ± 0.0030	0.0262 ± 0.0133
* Ag	0.2339 ± 0.0949	0.0075 ± 0.0030	0.0325 ± 0.0136
* Cd	0.0825 ± 0.0949	0.0026 ± 0.0030	0.0115 ± 0.0132
* In	0.1616 ± 0.1017	0.0052 ± 0.0032	0.0224 ± 0.0143
* Sn	0.1910 ± 0.1119	0.0061 ± 0.0036	0.0265 ± 0.0158
Sb	1.351 ± 0.1469	0.0431 ± 0.0047	0.1877 ± 0.0277
* Ba	1.589 ± 0.6407	0.0506 ± 0.0204	0.2207 ± 0.0917
* La	0.0000 ± 0.5062	0.0000 ± 0.0161	0.0000 ± 0.0703
Hg	0.5853 ± 0.0508	0.0187 ± 0.0016	0.0813 ± 0.0108
Pb	0.4181 ± 0.0452	0.0133 ± 0.0014	0.0581 ± 0.0086

* - Concentration is less than three times the uncertainty

Lab ID: 09-T4086
 Client ID: #3
 Filter ID: P8101421
 Site: Terrace of Mr. Margal Singh
 Sample Date: 11/15/10 - 11/16/10
 Filter Lot #: 6336008
 Volume: 7.200 +/- 0.720 m³
 Deposit Area: 11.3 cm²
 Size Fraction: PM2.5
 Comments: ~kilometer south west the clinker
 of Jaypee cements at Dhari Village

Analyte	<u>µg/filter</u>	<u>percent</u>	<u>µg/m³</u>
Gravimetry			
Net Mass	1,127. ± 10.		156.5 ± 15.71
XRF			
* Na	2.102 ± 1.740	0.1865 ± 0.1544	0.2919 ± 0.2435
Mg	13.21 ± 1.320	1.172 ± 0.1176	1.835 ± 0.2594
Al	74.91 ± 5.306	6.647 ± 0.4745	10.40 ± 1.275
Si	160.5 ± 9.771	14.24 ± 0.8762	22.29 ± 2.609
* P	0.1198 ± 0.0949	0.0106 ± 0.0084	0.0166 ± 0.0133
S	17.84 ± 0.9774	1.583 ± 0.0879	2.478 ± 0.2826
Cl	1.927 ± 0.1503	0.1710 ± 0.0134	0.2676 ± 0.0339
K	32.57 ± 1.678	2.890 ± 0.1511	4.523 ± 0.5088
Ca	178.3 ± 12.88	15.82 ± 1.152	24.77 ± 3.055
Ti	5.573 ± 0.2836	0.4945 ± 0.0255	0.7740 ± 0.0869
V	0.2124 ± 0.0271	0.0188 ± 0.0024	0.0295 ± 0.0048
Cr	0.2542 ± 0.0226	0.0226 ± 0.0020	0.0353 ± 0.0047
Mn	1.748 ± 0.1379	0.1551 ± 0.0123	0.2428 ± 0.0309
Fe	44.85 ± 2.245	3.980 ± 0.2023	6.229 ± 0.6966
* Co	0.0000 ± 0.0305	0.0000 ± 0.0027	0.0000 ± 0.0042
Ni	0.0701 ± 0.0158	0.0062 ± 0.0014	0.0097 ± 0.0024
Cu	0.0633 ± 0.0136	0.0056 ± 0.0012	0.0088 ± 0.0021
Zn	2.724 ± 0.1379	0.2417 ± 0.0124	0.3784 ± 0.0424
* Ga	0.0102 ± 0.0113	0.0009 ± 0.0010	0.0014 ± 0.0016
* Ge	0.0113 ± 0.0090	0.0010 ± 0.0008	0.0016 ± 0.0013
* As	0.0000 ± 0.0147	0.0000 ± 0.0013	0.0000 ± 0.0020
* Se	0.0158 ± 0.0079	0.0014 ± 0.0007	0.0022 ± 0.0011
Br	0.0689 ± 0.0079	0.0061 ± 0.0007	0.0096 ± 0.0015
Rb	0.1718 ± 0.0124	0.0152 ± 0.0011	0.0239 ± 0.0029
Sr	0.2746 ± 0.0170	0.0244 ± 0.0015	0.0381 ± 0.0045
* Y	0.0203 ± 0.0102	0.0018 ± 0.0009	0.0028 ± 0.0014
Zr	0.1774 ± 0.0147	0.0157 ± 0.0013	0.0246 ± 0.0032
* Mo	0.0000 ± 0.0158	0.0000 ± 0.0014	0.0000 ± 0.0022
* Pd	0.0113 ± 0.0667	0.0010 ± 0.0059	0.0016 ± 0.0093
* Ag	0.1074 ± 0.0667	0.0095 ± 0.0059	0.0149 ± 0.0094
Cd	0.2882 ± 0.0701	0.0256 ± 0.0062	0.0400 ± 0.0105
In	0.2294 ± 0.0734	0.0204 ± 0.0065	0.0319 ± 0.0107
* Sn	0.1944 ± 0.0825	0.0172 ± 0.0073	0.0270 ± 0.0118
* Sb	0.1401 ± 0.0893	0.0124 ± 0.0079	0.0195 ± 0.0126
* Ba	0.4430 ± 0.2271	0.0393 ± 0.0202	0.0615 ± 0.0321
* La	0.0000 ± 0.1672	0.0000 ± 0.0148	0.0000 ± 0.0232
* Hg	0.0000 ± 0.0226	0.0000 ± 0.0020	0.0000 ± 0.0031
Pb	0.4712 ± 0.0362	0.0418 ± 0.0032	0.0654 ± 0.0082

* - Concentration is less than three times the uncertainty

Lab ID: 09-T4089
 Client ID: #4
 Filter ID: P8101424
 Site: terrace of Mr. Sushima
 Sample Date: 11/16/10 - 11/17/10
 Filter Lot #: 6336008
 Volume: 7.200 +/- 0.720 m³
 Deposit Area: 11.3 cm²
 Size Fraction: PM2.5
 Comments: West of Ambya Cements ~100mts from
 gale.~6 stone crushers 50-100mts

Analyte	<u>µg/filter</u>	<u>percent</u>	<u>µg/m³</u>
Gravimetry			
Net Mass	1,901. ± 10.		264.0 ± 26.44
XRF			
Na	44.23 ± 7.772	2.327 ± 0.4090	6.143 ± 1.242
Mg	45.65 ± 4.935	2.401 ± 0.2599	6.341 ± 0.9337
Al	208.1 ± 16.50	10.95 ± 0.8698	28.91 ± 3.689
Si	505.1 ± 33.87	26.57 ± 1.787	70.15 ± 8.446
* P	0.0000 ± 0.3085	0.0000 ± 0.0162	0.0000 ± 0.0428
S	21.24 ± 1.296	1.118 ± 0.0684	2.951 ± 0.3456
Cl	5.391 ± 0.3887	0.2836 ± 0.0205	0.7488 ± 0.0923
K	75.51 ± 6.870	3.972 ± 0.3620	10.49 ± 1.418
Ca	288.7 ± 43.23	15.19 ± 2.276	40.10 ± 7.221
Ti	15.74 ± 0.7989	0.8280 ± 0.0423	2.186 ± 0.2452
V	0.6384 ± 0.0689	0.0336 ± 0.0036	0.0887 ± 0.0130
Cr	0.4158 ± 0.0429	0.0219 ± 0.0023	0.0578 ± 0.0083
Mn	5.369 ± 0.3944	0.2824 ± 0.0208	0.7456 ± 0.0925
Fe	165.4 ± 8.276	8.702 ± 0.4378	22.98 ± 2.569
* Co	0.0000 ± 0.0508	0.0000 ± 0.0027	0.0000 ± 0.0071
Ni	0.2034 ± 0.0271	0.0107 ± 0.0014	0.0282 ± 0.0047
Cu	0.1582 ± 0.0215	0.0083 ± 0.0011	0.0220 ± 0.0037
Zn	3.700 ± 0.1876	0.1946 ± 0.0099	0.5138 ± 0.0576
Ga	0.0689 ± 0.0158	0.0036 ± 0.0008	0.0096 ± 0.0024
* Ge	0.0000 ± 0.0158	0.0000 ± 0.0008	0.0000 ± 0.0022
* As	0.0000 ± 0.0215	0.0000 ± 0.0011	0.0000 ± 0.0030
* Se	0.0158 ± 0.0102	0.0008 ± 0.0005	0.0022 ± 0.0014
Br	0.0689 ± 0.0090	0.0036 ± 0.0005	0.0096 ± 0.0016
Rb	0.5797 ± 0.0316	0.0305 ± 0.0017	0.0805 ± 0.0092
Sr	1.043 ± 0.0542	0.0549 ± 0.0029	0.1449 ± 0.0163
Y	0.1763 ± 0.0147	0.0093 ± 0.0008	0.0245 ± 0.0032
Zr	0.6475 ± 0.0362	0.0341 ± 0.0019	0.0899 ± 0.0103
* Mo	0.0000 ± 0.0170	0.0000 ± 0.0009	0.0000 ± 0.0024
* Pd	0.0927 ± 0.0780	0.0049 ± 0.0041	0.0129 ± 0.0109
* Ag	0.2113 ± 0.0802	0.0111 ± 0.0042	0.0293 ± 0.0115
* Cd	0.1232 ± 0.0802	0.0065 ± 0.0042	0.0171 ± 0.0113
* In	0.1390 ± 0.0859	0.0073 ± 0.0045	0.0193 ± 0.0121
* Sn	0.2271 ± 0.0972	0.0119 ± 0.0051	0.0315 ± 0.0139
Sb	0.5932 ± 0.1119	0.0312 ± 0.0059	0.0824 ± 0.0176
Ba	2.007 ± 0.6125	0.1056 ± 0.0322	0.2787 ± 0.0895
* La	0.0000 ± 0.4588	0.0000 ± 0.0241	0.0000 ± 0.0637
Hg	0.3853 ± 0.0350	0.0203 ± 0.0018	0.0535 ± 0.0072
Pb	1.008 ± 0.0689	0.0530 ± 0.0036	0.1400 ± 0.0170

* - Concentration is less than three times the uncertainty

CHESTER LabNet

XRF-770

XRF Analytical Quality Assurance Report

Client: Global Community Monitor

Report: 10-339

Analysis Period: December 6, 2010

Number of Samples: 4

1. Precision Data

Micromatter Multi-elemental Quality Control Standard: QS285

QC Standard Results

Analyte	n	Counts per Second			c.v.	%E
		Calib.	Meas.	S.D.		
Si(0)	1	1939.72	1847.40	na	na	-4.76
Ti(1)	1	598.49	592.60	na	na	-0.98
Fe(1)	1	1340.49	1328.60	na	na	-0.89
Se(3)	1	348.99	340.14	na	na	-2.53
Pb(3)	1	399.63	392.46	na	na	-1.79
Cd(4)	1	282.74	291.90	na	na	3.24

2. Accuracy Data

NIST Standard Reference Materials: SRM 1832, SRM 1833, SRM 2783

Analyte/ SRM	n	Certified Value($\mu\text{g}/\text{cm}^2$)	Measured Value ($\mu\text{g}/\text{cm}^2$)				% Rec.
			High	Low	Average		
Al 1832	4	14.6 +/- .97	14.81	14.23	14.48	+/- 0.25	99.2
Si 1832	4	34.0 +/- 1.1	33.66	33.52	33.59	+/- 0.05	98.8
Si 1833	4	31.5 +/- 2.1	31.09	30.93	31.01	+/- 0.06	98.4
S 2708	4	2.46 +/- .25	2.54	2.51	2.53	+/- 0.02	102.6
K 1833	4	16.4 +/- 1.64	17.50	16.69	17.06	+/- 0.36	104.0
Ca 2783	4	1.33 +/- 0.17	1.31	1.28	1.30	+/- 0.01	97.9
Ti 1833	4	12.1 +/- 1.79	11.75	11.52	11.62	+/- 0.10	96.1
V 1832	4	4.70 +/- .49	4.74	4.39	4.53	+/- 0.13	96.4
Mn 1832	4	4.54 +/- .49	4.81	4.70	4.76	+/- 0.04	104.8
Fe 1833	4	13.6 +/- .45	13.38	13.14	13.29	+/- 0.10	97.7
Cu 1832	4	2.43 +/- .16	2.57	2.44	2.50	+/- 0.05	102.7
Zn 2783	4	.188 +/- .013	0.188	0.182	0.185	+/- 0.00	103.0
Pb 1833	4	16.1 +/- .75	17.69	16.73	17.07	+/- 0.37	106.0

NIST: National Institute of Standards and Technology

% Rec: Percent Recovery = (Experimental/Given) x 100

n: Number of Observations

S.D.: Standard Deviation

c.v.: Coefficient of Variation = (S.D./Measured) x 100

% E: Percent Error = [(Measured-Calibrated)/Calibrated] x 100

XRF-770 REPLICATE REPORT

5.02

Original ID: 09-T4083

Replicate ID: RT4083

Filter Lot:

Deposit Mass: 3137 µg

Deposit Area: 11.3 cm²

Particle Size: F

Element	Original ug/cm2		Replicate ug/cm2		Difference ug/cm2		RPD		
Na	0.0000	+/- 0.4519	0.0000	+/- 0.5456	0.0000	+/- 0.7084			
Mg	3.0310	+/- 0.5018	3.0964	+/- 0.5647	-0.0653	+/- 0.7554	+	-2.1	+/- 24.7
Al	13.5013	+/- 1.1986	13.5096	+/- 1.2096	-0.0083	+/- 1.7029	+	-0.1	+/- 12.6
Si	32.0436	+/- 2.2963	32.0144	+/- 2.2979	0.0292	+/- 3.2486	+	0.1	+/- 10.1
P	0.0000	+/- 0.0453	0.0000	+/- 0.0480	0.0000	+/- 0.0660			
S	5.8491	+/- 0.4471	5.8946	+/- 0.4597	-0.0456	+/- 0.6413	+	-0.8	+/- 10.9
Cl	0.0961	+/- 0.0369	0.1697	+/- 0.0496	-0.0736	+/- 0.0618			
K	9.1003	+/- 0.6967	9.0134	+/- 0.6966	0.0868	+/- 0.9852	+	1.0	+/- 10.9
Ca	99.9223	+/- 7.5250	100.3443	+/- 7.5614	-0.4220	+/- 10.6677	+	-0.4	+/- 10.7
Ti	1.0777	+/- 0.0560	1.0486	+/- 0.0567	0.0291	+/- 0.0797	+	2.7	+/- 7.5
V	0.0399	+/- 0.0085	0.0322	+/- 0.0118	0.0077	+/- 0.0146	+	21.4	+/- 40.5
Cr	0.1469	+/- 0.0100	0.1483	+/- 0.0121	-0.0014	+/- 0.0157	+	-1.0	+/- 10.6
Mn	0.5940	+/- 0.0443	0.6062	+/- 0.0471	-0.0121	+/- 0.0647	+	-2.0	+/- 10.8
Fe	10.0748	+/- 0.5044	10.1182	+/- 0.5072	-0.0434	+/- 0.7154	+	-0.4	+/- 7.1
Co	0.0183	+/- 0.0067	0.0295	+/- 0.0095	-0.0112	+/- 0.0116			
Ni	0.0645	+/- 0.0050	0.0732	+/- 0.0066	-0.0087	+/- 0.0083	0	-12.6	+/- 12.0
Cu	0.0076	+/- 0.0026	0.0020	+/- 0.0036	0.0056	+/- 0.0045			
Zn	0.1367	+/- 0.0074	0.1391	+/- 0.0116	-0.0025	+/- 0.0137	+	-1.8	+/- 10.0
Ga	0.0095	+/- 0.0019	0.0112	+/- 0.0026	-0.0018	+/- 0.0033	+	-17.0	+/- 31.6
Ge	0.0000	+/- 0.0019	0.0003	+/- 0.0027	-0.0003	+/- 0.0033			
As	0.0000	+/- 0.0023	0.0000	+/- 0.0031	0.0000	+/- 0.0038			
Se	0.0015	+/- 0.0011	0.0044	+/- 0.0016	-0.0028	+/- 0.0020			
Br	0.0089	+/- 0.0011	0.0122	+/- 0.0015	-0.0034	+/- 0.0019	0	-32.0	+/- 18.0
Rb	0.0551	+/- 0.0031	0.0547	+/- 0.0034	0.0004	+/- 0.0046	+	0.7	+/- 8.4
Sr	0.2694	+/- 0.0137	0.2748	+/- 0.0142	-0.0054	+/- 0.0197	+	-2.0	+/- 7.2
Y	0.0065	+/- 0.0015	0.0090	+/- 0.0021	-0.0025	+/- 0.0026	+	-32.2	+/- 33.0
Zr	0.0362	+/- 0.0026	0.0366	+/- 0.0032	-0.0004	+/- 0.0042	+	-1.1	+/- 11.4
Mo	0.0000	+/- 0.0022	0.0050	+/- 0.0032	-0.0050	+/- 0.0039			
Pd	0.0167	+/- 0.0083	0.0357	+/- 0.0117	-0.0191	+/- 0.0144			
Ag	0.0207	+/- 0.0084	0.0387	+/- 0.0118	-0.0179	+/- 0.0145			
Cd	0.0073	+/- 0.0084	0.0428	+/- 0.0120	-0.0355	+/- 0.0147			
In	0.0143	+/- 0.0090	0.0281	+/- 0.0126	-0.0138	+/- 0.0155			
Sn	0.0169	+/- 0.0099	0.0323	+/- 0.0141	-0.0154	+/- 0.0172			
Sb	0.1196	+/- 0.0130	0.1161	+/- 0.0167	0.0035	+/- 0.0211	+	3.0	+/- 17.9
Ba	0.1406	+/- 0.0567	0.2394	+/- 0.0717	-0.0989	+/- 0.0914			
La	0.0000	+/- 0.0448	0.0656	+/- 0.0525	-0.0656	+/- 0.0690			
Hg	0.0518	+/- 0.0045	0.0523	+/- 0.0056	-0.0005	+/- 0.0071	+	-1.0	+/- 13.7
Pb	0.0370	+/- 0.0040	0.0464	+/- 0.0053	-0.0094	+/- 0.0066	0	-22.6	+/- 15.9

RPD: Relative Percent Difference $(X1-X2)/[(X1+X2)/2]*100$. RPD is calculated when original value is greater than three times its uncertainty.

10-339

CHESTER LabNet
 12242 SW Garden Place
 Tigard, OR 97223
 (503) 624-2183
 Fax (503) 624-2653
 clin@chesterlab.net

CHAIN-OF-CUSTODY RECORD

Company Name Community Environmental Monitoring		Phone
Contact #918056024315		
E-Mail Address NO.PVC.EVER@GMAIL.COM	Fax	
Report Address #2139 Asthalakshmi Gardens	State	Zip
City Basant-Nagar	Tamil Nadu	600090
Billing Address GLOBAL COMMUNITY MONITOR	State	Zip
City CA	CA	
PO #	Project	

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m ³)	Particle Size	Analysis Requested				Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Specify _____	Remarks
09-T4080	I		13.11.2010	5L	PM10						Sample location:
Pdter JD - P8101415			14.11.2010								Western side approx 250 mts of Jaypee cements grinding and blasting unit at Bagheri.
			14.11.2010								On top of house of Mr. Phuman kumar of Padina village.
											Sample location
											Sample location

Notes:

Requisitioned By: (Signature) <i>[Signature]</i>	Date/Time
Received By: (Signature) <i>[Signature]</i>	Date/Time 29/11/10 4:48pm
Requisitioned By: (Signature) <i>[Signature]</i>	Date/Time
Received By: (Signature) <i>[Signature]</i>	Date/Time 12/11/10 10:45

CHESTER LabNet

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Company Name Community Env. Monitoring		Phone	
Contact +91 88 560 24315		Fax	
E-Mail Address NOPOCEVER@GMAIL.COM		Report Address	
H3139, Asthalakshmi Gardens		State TN	Zip 600070
Billing Address GLOBAL COMMUNITY MONITOR		City CA	State
PO #		Project	

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m³)	Particle Size	Analysis Requested	Turn Around Time		Remarks
							<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush _____ Specify	
09-T4083	#2		14.11.2010	PM 2.5	PM 2.5	All metals and			Sample location
			to	54 min					
			16.11.2010						Western side approx
			Time						250 mts of Jaqre
			4:10 Pm						Cements grinding
			2 hrs.						and bagged unit
									at Baghera
									On top of house of
									Mr. Pabam Kumar of
									Padiana village.

Notes:

Relinquished By: (Signature) _____ Date/Time _____
 Received By: (Signature) _____ Date/Time **29/11/10 4:45pm**
 Relinquished By: (Signature) _____ Date/Time _____
 Received By: (Signature) **Sam Bell** Date/Time **12/11/10 10:45**

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 12242 SW Garden Place
 Tigard, OR 97223
 (503) 624-2183
 Fax (503) 624-2653
 cin@chesterlab.net

CHAIN-OF-CUSTODY RECORD

Company Name: **Community Environmental Monitoring**

Contact: **Shweta Narayan** Phone: **8056024319**

E-Mail Address: **NOPUC EVER @GMAIL.COM** Fax:

Report Address: **H-3139, Asthalakehni Garden**

City: **Nagpur, Chornai** State: **TN** Zip: **60090**

Billing Address: **GLOBAL COMMUNITY MONITOR**

City: **SF.** State: **CA** Zip:

PO #:

Project:

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m ³)	Particle Size	Analysis Requested				Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Specify _____	Remarks	
09-T4086			15.11.2010	5 Liters	PM2.5	Total metal					Sample location	
	Sample Id #3											
	24 hours sample											
	7:05 pm											
	Filter Id -	P8101421										

Notes:
 * No loading or unloading activity reported from the morning of 16.11.2010 due to Worker's strike.

Relinquished By: (Signature) *[Signature]* Date/Time: 09/11/2010 4:45 PM

Received By: (Signature) *[Signature]* Date/Time: 12/11/10 10:45

Company Name: **Community Environmental Monitoring CHESTER LabNet**
 Contact: **Shweta Narayan** Phone: **12242 SW Garden Place Tigard, OR 97223**
 E-Mail Address: **NOPVEVER@GMAIL.COM** Fax: **(503) 624-2183**
 Report Address: **4-31/39, Asthalakshani Gardens, Belmont,**
 City: **Chennai** State: **TN** Zip: **600090**
 Billing Address: **GLOBAL COMMUNITY MDN/TOR**
 City: **SF** State: **CA** Zip:
 PO #: Project:

Nayan,

CHAIN-OF-CUSTODY RECORD

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m ³)	Particle Size	Analysis Requested	Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____ Specify _____	Remarks	
09-74089	#4		16-11-2010	51	µm	Total metals and PM 2.5		Sample taken from the terrace of house of Mr. Sushma @ Namagadon village P.O. Shajhera H.P. western side of Ambayya Cements about 100mts from the gate. There are about 6 stone crushers within 50 to 100mts radius of the location.	
			17-11-2010						
Time: 8:52 pm till 1:02 pm	16 hours 10 min								
Relinquished By: (Signature) _____ Date/Time _____		Received By: (Signature) _____ Date/Time _____						Notes:	
Relinquished By: (Signature) _____ Date/Time _____		Received By: (Signature) _____ Date/Time _____							

RAW DATA

Available upon request