

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182**

**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

Page 1 of 8

TO: Jason Aspell, Sr. Manager
Compliance and Enforcement

LABORATORY NO: 1915502

REFERENCE NO: MIC-26-66

SAMPLE DESCRIPTION:

2 – Plastic jars
5 – Glass plates

DATE RECEIVED: 6-4-19

SUBMITTED BY: K. Gonzales

SAMPLE

SOURCE I.D.#: 139446

SOURCE: Ascon Landfill
21641 Magnolia Street, Huntington Beach

Particle Identification by Microscopy in accordance with SCAQMD Method 301,
Identification of Particles by Polarized Light Microscopy (PLM). Additional Particle
Identification by
*Scanning Electron Microscopy with Energy Dispersive Spectrometer
(SEM-EDS)* .

- major component – *visual area estimation* of particles of this component is approximately >10% of the total particles.
- minor component – *visual area estimation* of particles of this component is approximately 1-10% of the total particles.
- trace – *visual area estimation* of particles of this component is approximately <1% of the total particles.

Sample 1 contained excavation site soil. The sample consisted of common crystalline material as the major component. SEM-EDS analysis showed that the crystalline material consisted of common silicates composed of silicon, sodium, calcium, aluminum, magnesium, potassium, and/or iron. Trace amounts of particles with EDS spectra consistent with barium and sulfur were observed.

Sample 2 contained residue remaining after white foam from the excavation site was allowed to dry. The residue was composed of small crystalline inclusions. SEM-EDS analysis showed that the residue contained silicon, sodium, calcium, aluminum, magnesium, potassium, and/or iron. In addition, phosphorous and sulfur were also detected.

**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

Page 2 of 8
LN 1915502

Sample 3-7 are glass plates placed at various locations (See Sample Analysis Request Form). All glass plates had very light depositions. Common crystalline material and rubber particles were observed as the major components. Plant material was observed as a minor component. EDS scans of particles from the glass plates were consistent with common silicates composed of silicon, sodium, calcium, aluminum, magnesium, potassium, and/or iron. Particles consistent with barium and sulfur observed in Sample 1 were detected in trace amounts in Sample 4 but were not detected in Samples 3, 5, 6 and 7. Phosphorous and sulfur observed in Sample 2 were not detected in Samples 3-7.

Conclusion:

Depositions observed on all glass plates were very light limiting the amount of material that could be analyzed. Crystalline material observed in Samples 1-2 (jars) and Samples 3-7 (glass plates) consisted of common silicates. The trace amount of particles containing barium and sulfur detected in Sample 4 cannot be directly associated with barium and sulfur particles in Sample 1 because of other potential sources. Phosphorous and sulfur detected in Sample 2 were not detected in Samples 3-7.

No other metallic components other than commonly occurring iron were observed in any of the samples.

See attached photomicrographs. The photomicrographs of the scrapings do not represent the actual deposition of particles as observed on the collection plates.

Date Approved: 6/13/2019

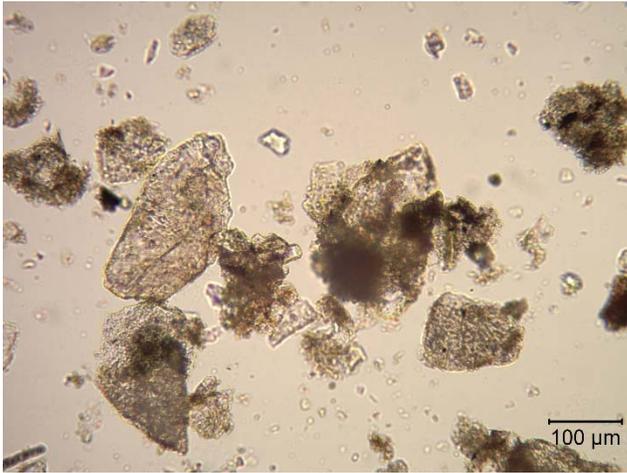
Approved by: 

Aaron Katzenstein, Ph.D., Sr. Manager
Laboratory Services Branch

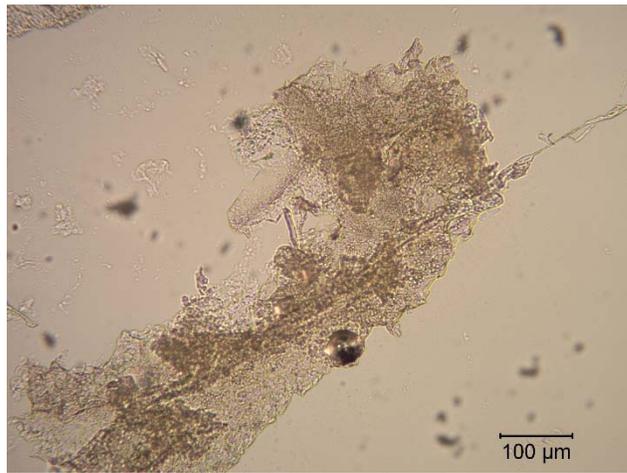
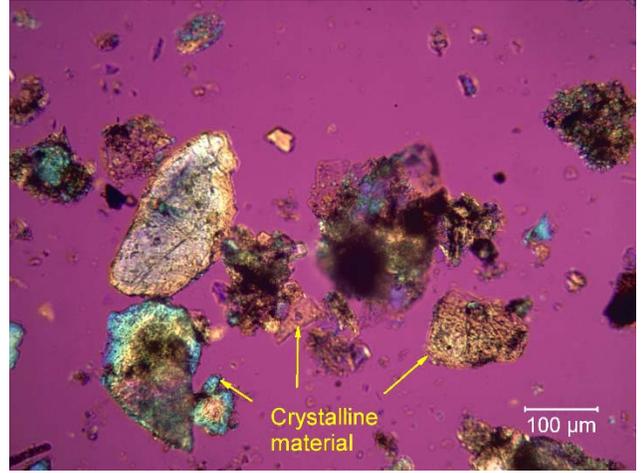
**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

Page 3 of 8
LN 1915502

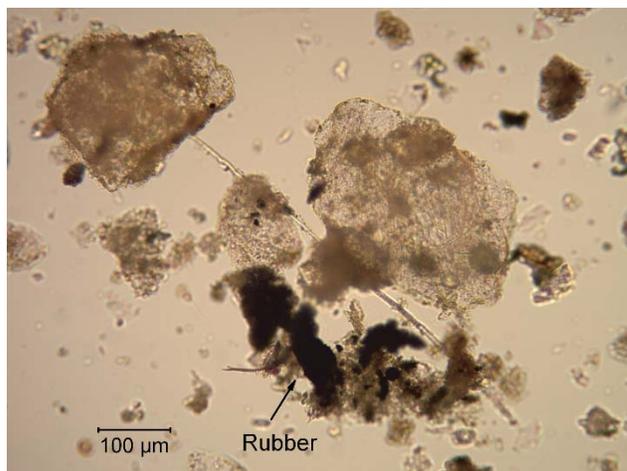
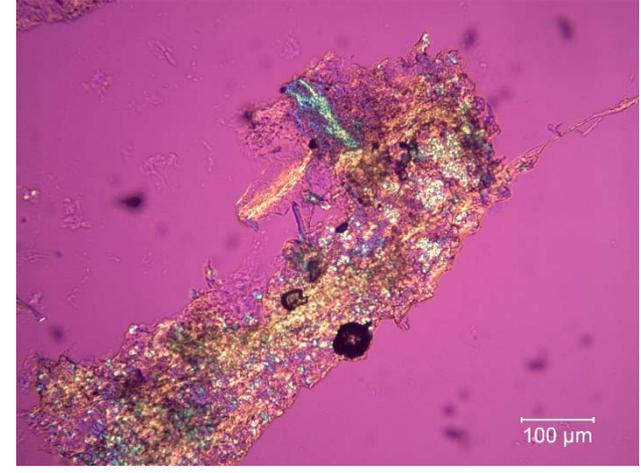
PLM



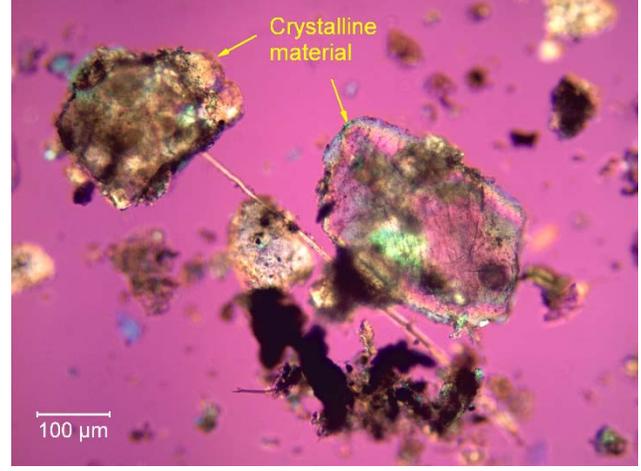
Sample 1



Sample 2



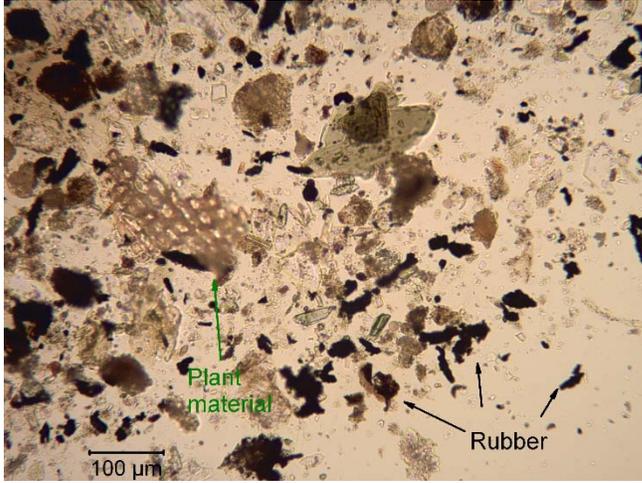
Sample 3



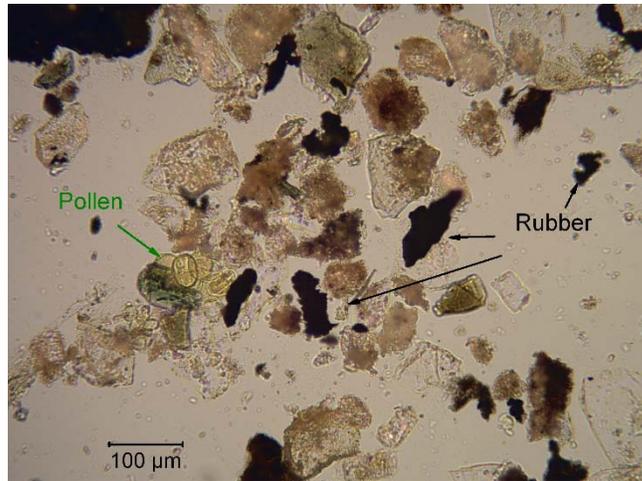
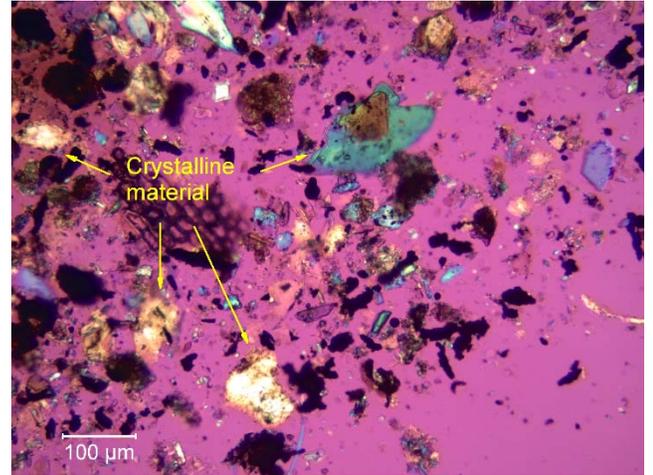
**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

Page 4 of 8
LN 1915502

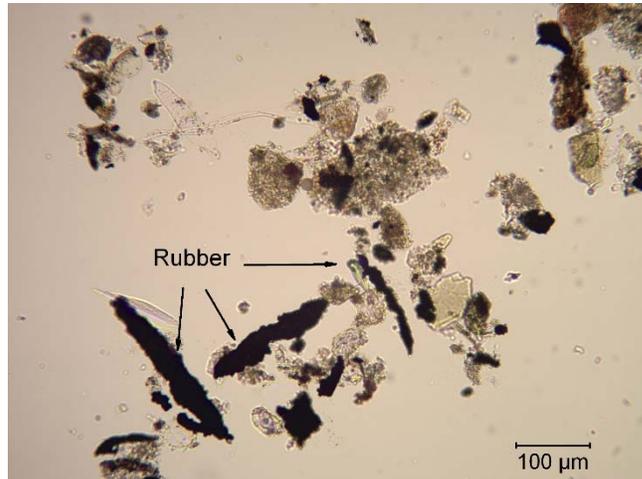
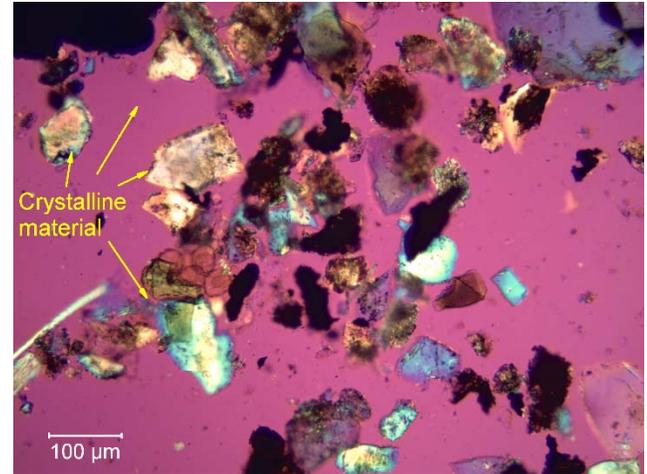
PLM



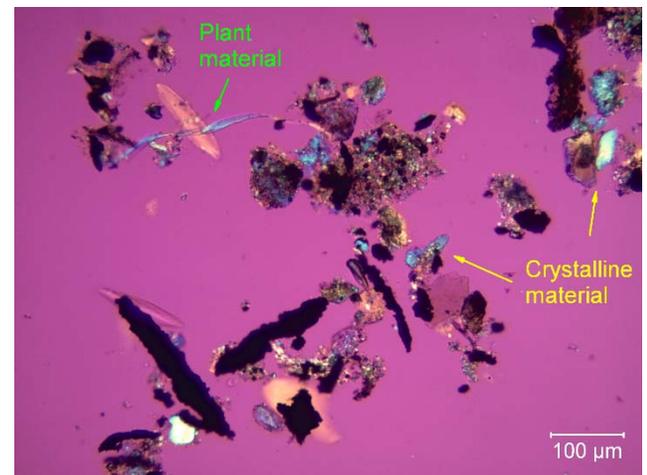
Sample 4



Sample 5



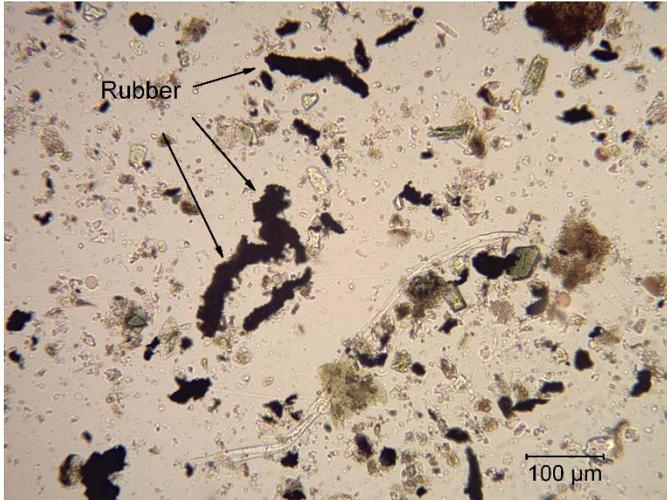
Sample 6



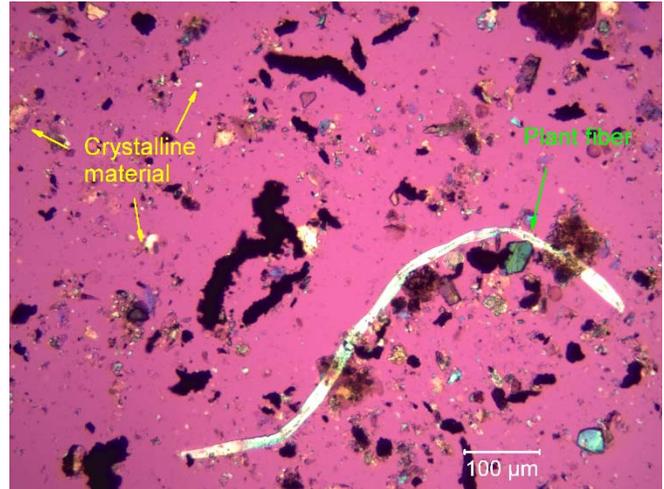
**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

Page 5 of 8
LN 1915502

PLM



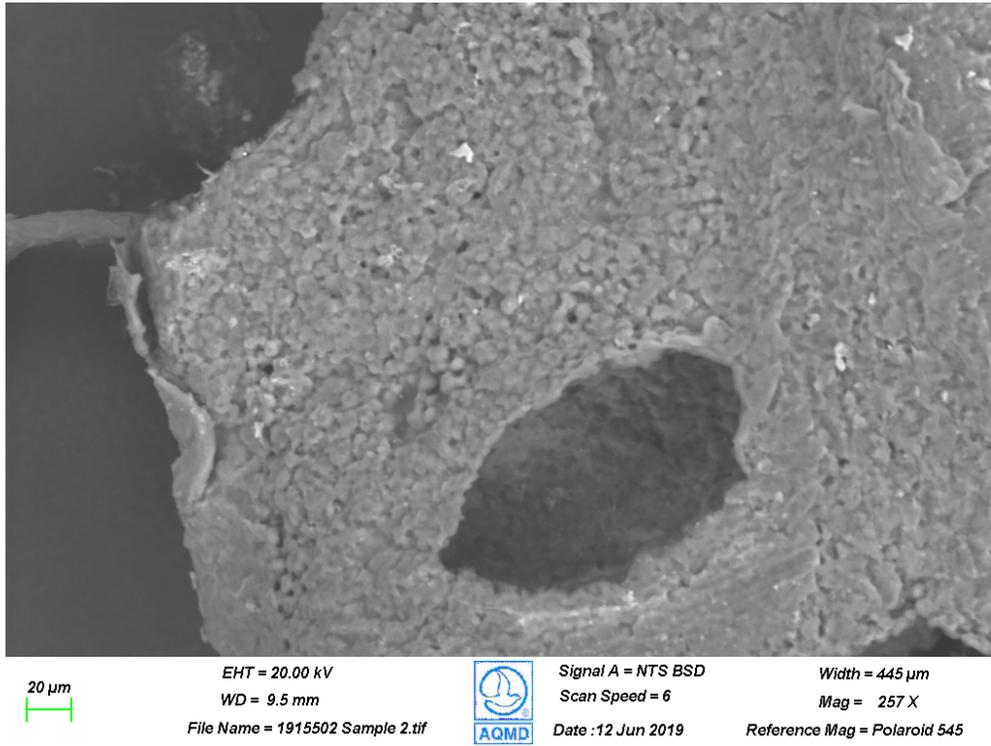
Sample 7



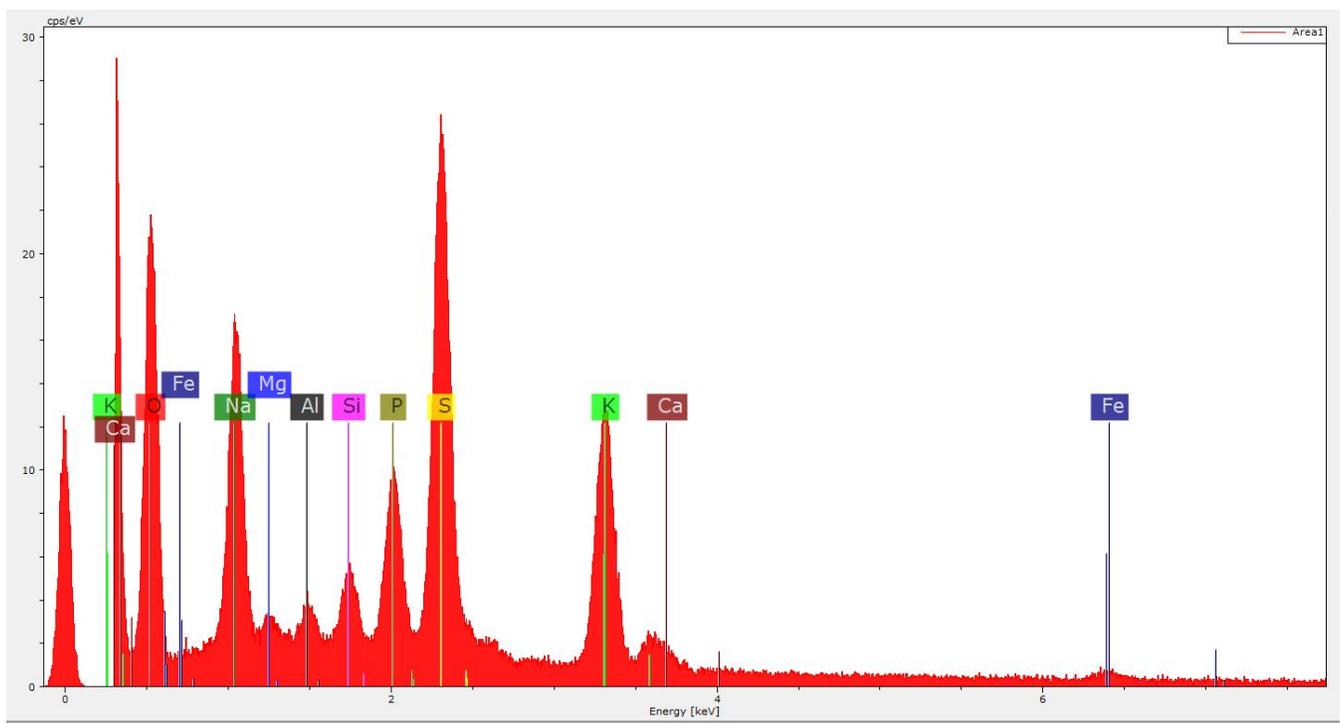
MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

Page 6 of 8
LN 1915502

SEM



EDS Scan



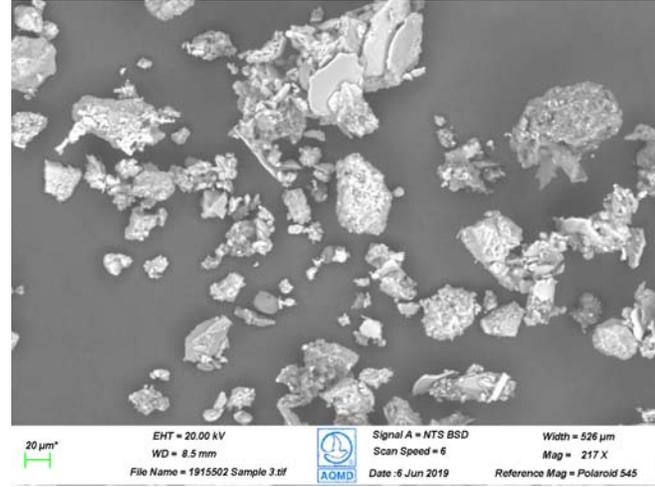
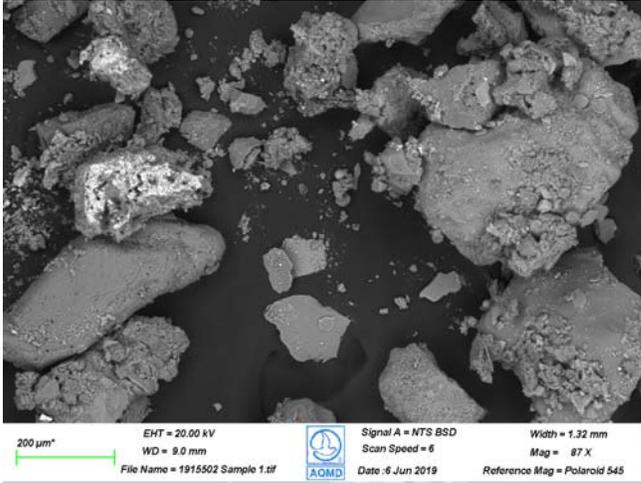
MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

Page 7 of 8
LN 1915502

Sample 1

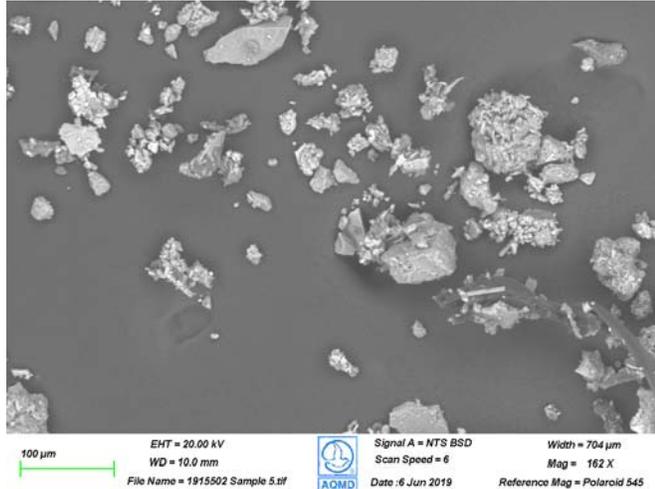
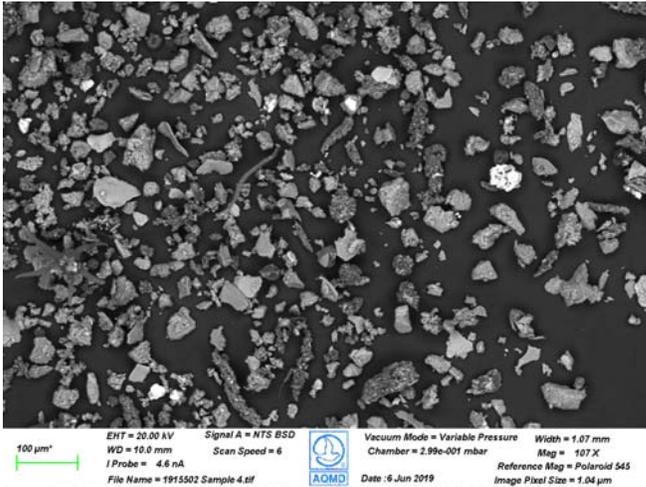
SEM

Sample 3



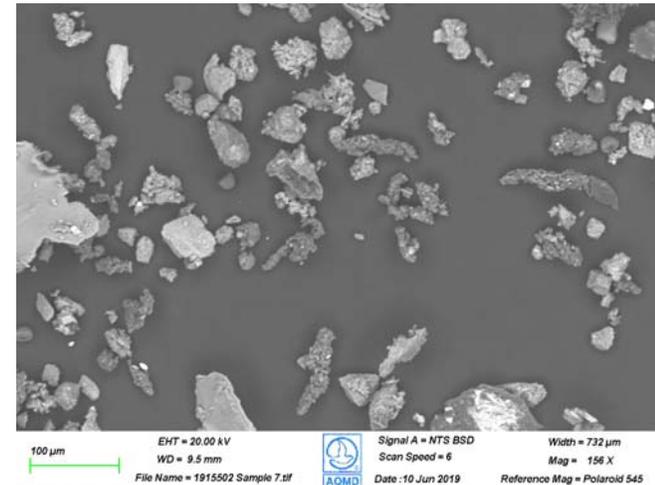
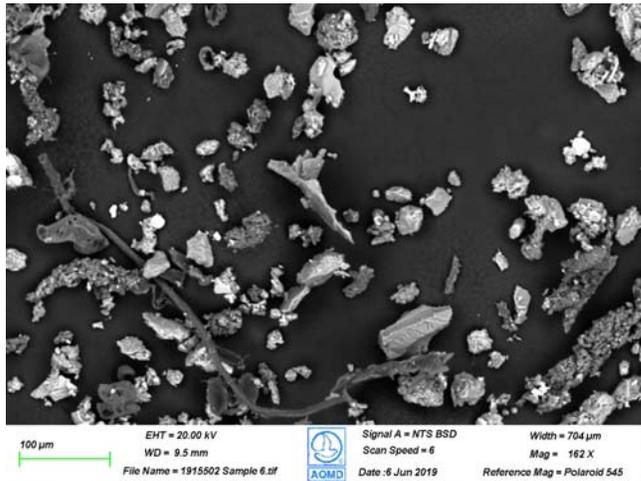
Sample 4

Sample 5



Sample 6

Sample 7

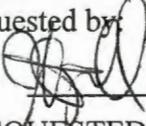


**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

DISTRICT INFORMATION
 INVOICE SOURCE
 LABORATORY NO. 1915502

P. 8 of 8

TO: SCAQMD LAB: **X** OTHER: _____
 SOURCE NAME: Ascon Landfill I.D. No. 139446
 Source Address: 21641 Magnolia Street City: Huntington Beach
 Mailing Address: 21641 Magnolia Street City: Huntington Beach Zip: 92646
 Contact Person: Kristina Gonzales Title: Air Quality Inspector Tel. 909-396-2982

Analysis Requested by: Kristina Gonzales Date: 6/4/19
 Approved by:  Office: Compliance Budget #: 60550
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 1466, 403, 402 Other

Sample Collected by: Kristina Gonzales Date: See below Time: See below

Specify the description and location where the sample was collected:

- Sample 1 – Brown excavation site soil from Ascon Landfill collected 5/31/19 at 1216 hours
- Sample 2 – White foam from excavation site of Ascon Landfill collected 5/31/19 at 1216 hours
- Sample 50-15 – Airborne dust collected at fire station parking lot wall located at 21441 Magnolia Street in Huntington Beach 5/28/19 1447 hours to 5/31/19 1504 hours
- Sample 66-15 – Airborne dust collected at wall between Magnolia Street and Regatta Drive in Huntington Beach 5/28/19 1517 hours to 5/31/19 1546 hours
- Sample 2-16 – Airborne dust collected at wall between Magnolia Street and Niguel Circle in Huntington Beach 5/28/19 1540 hours to 5/31/19 1550 hours
- Sample 69-15 – Airborne dust collected at Edison High School center of campus located at 21400 Magnolia Street in Huntington Beach 5/29/19 1427 hours to 5/31/19 1527 hours
- Sample 68-15 – Airborne dust collected at Edison High School SW building located at 21400 Magnolia Street in Huntington Beach 5/29/19 1434 hours to 5/31/19 1532 hours

Analysis Requested: Analyze plates and compare to findings from samples 1 and 2.

Relinquished by	Received by	Firm/Agency	Date	Time
<i>K. Carl</i>	<i>Car V. Gomez</i>	<i>LABS</i>	<i>6/4/19</i>	<i>11:50 am</i>

Please expedite 