

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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

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TO: Ed Pupka, Senior Manager
Engineering and Compliance

LABORATORY NO: 0932804

REFERENCE NO: MIC-20-100

SAMPLE DESCRIPTION:

DATE RECEIVED: 11-24-09

5 Glass plates

SUBMITTED BY: C. Aviles

SAMPLE

SOURCE I.D.#: None listed

SOURCE: Source Unknown
(PXP Culver City)

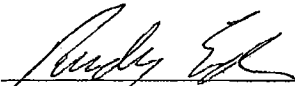
Particle Identification by Microscopy in accordance with SCAQMD Method 301,
Identification of Particles by Microscopy. Additional Particle Identification by
X-ray Diffraction (XRD) Spectroscopy.

- 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.

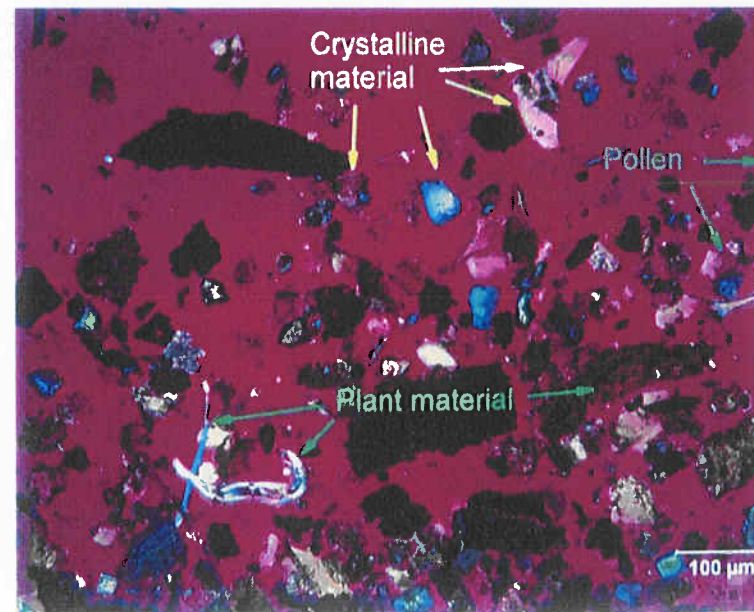
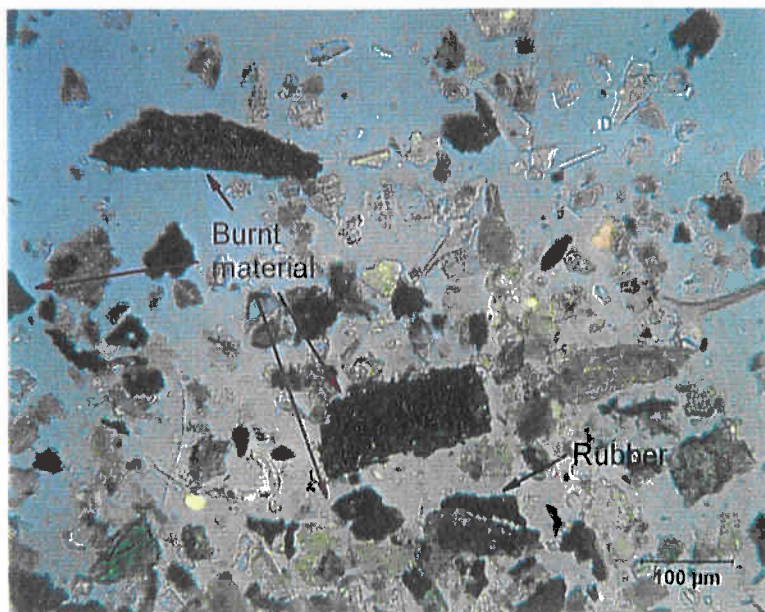
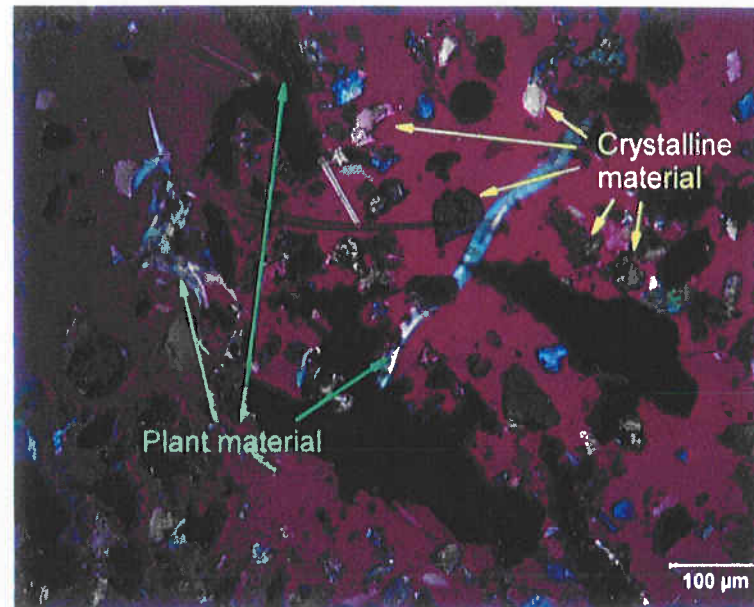
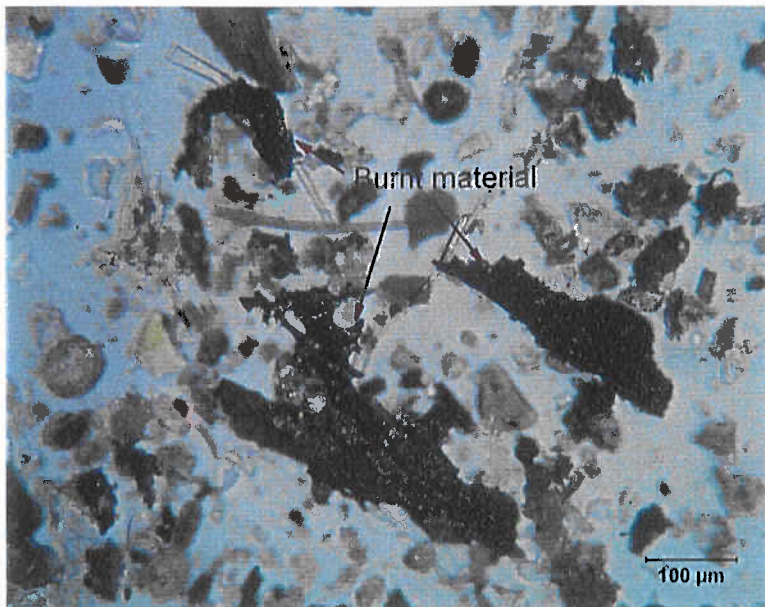
Glass plates 259-08 and 261-08 had light depositions. Glass plates 262-08, 263-08, and 264-08 had moderate depositions. All plates had similar observations. Burnt or combusted materials were observed as major components. Common crystalline material and rubber particles were also observed as major components. Plant material such as pollen and plant fibers were observed as minor components. Oil soot was observed as a trace component. The XRD spectra of scrapings taken from the plates were consistent with common silicates such as quartz, albite and anorthite, and carbonates such as calcite.

Conclusion – Glass plates 259-08, 261-08, 262-08, 263-08, and 264-08 had burnt or combusted materials in amounts greater than typically observed in ambient fallout.

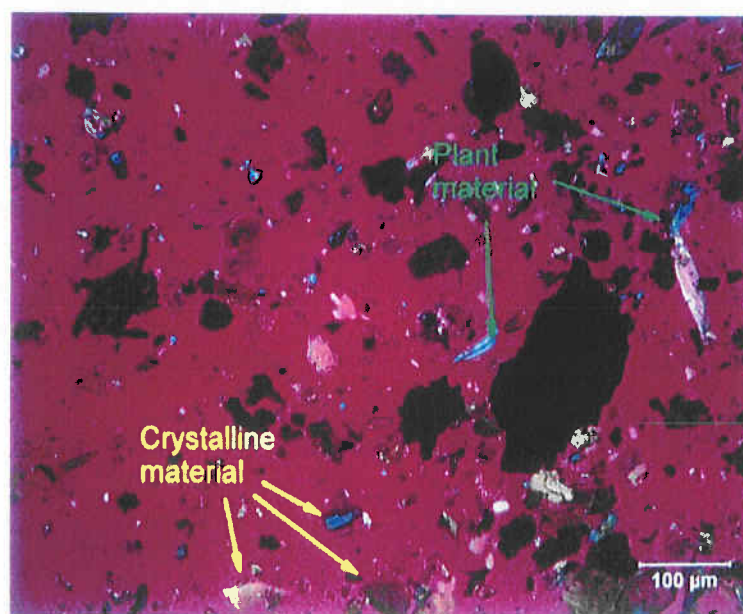
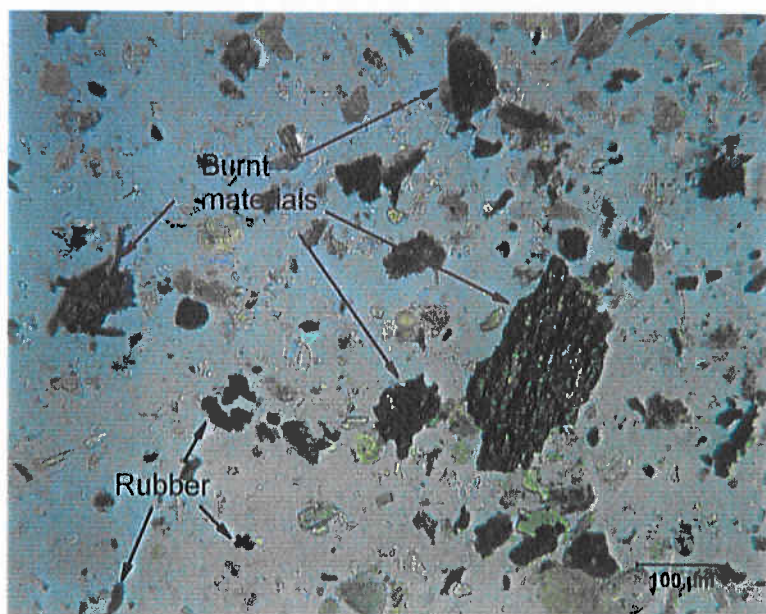
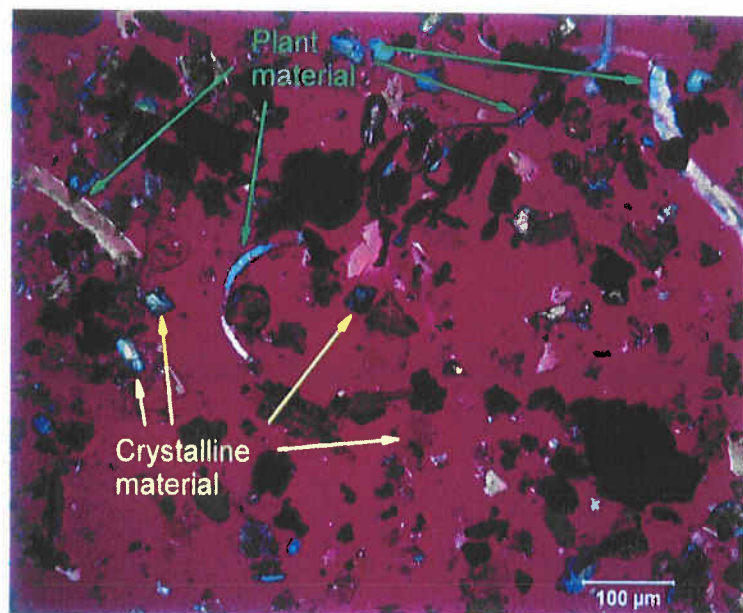
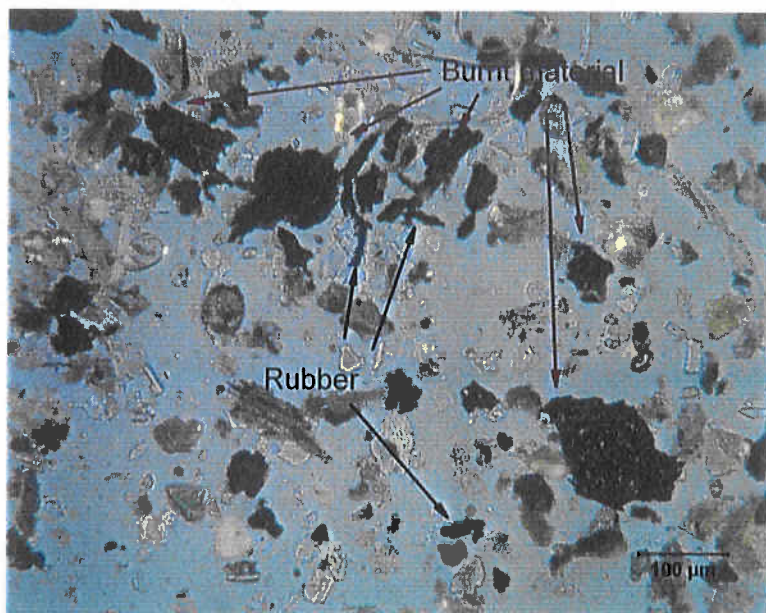
Date Approved: 12/10/09

Approved by: 
Rudy Eden, Sr. Manager
Laboratory Services Branch

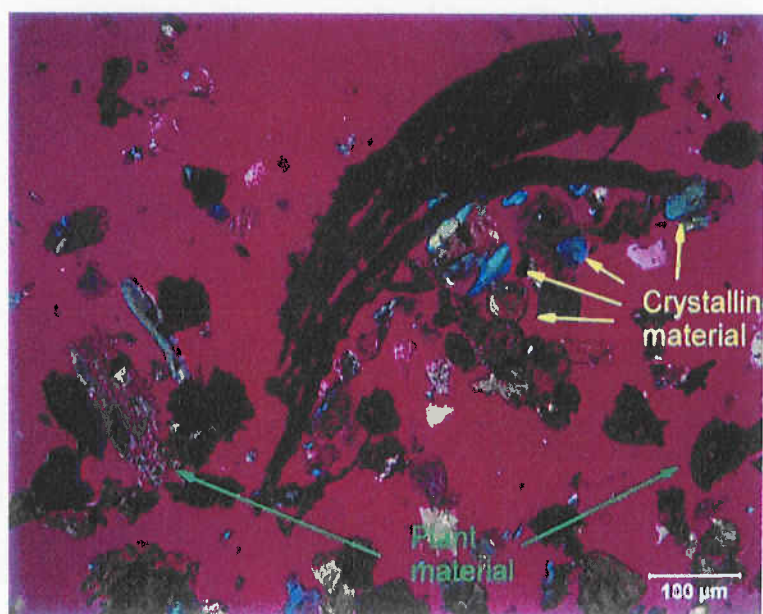
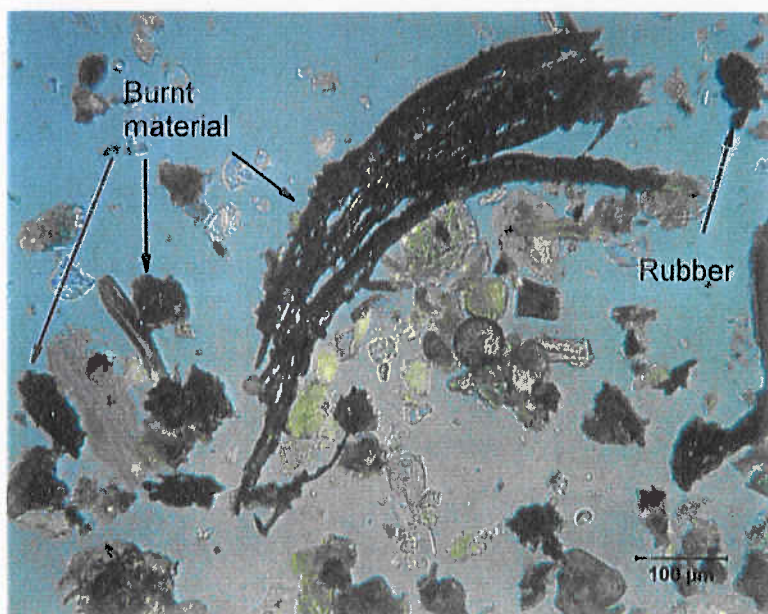
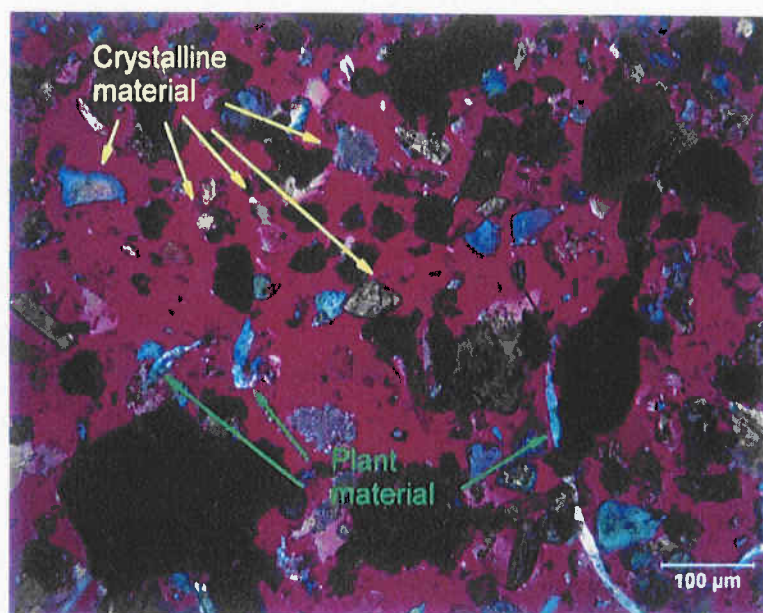
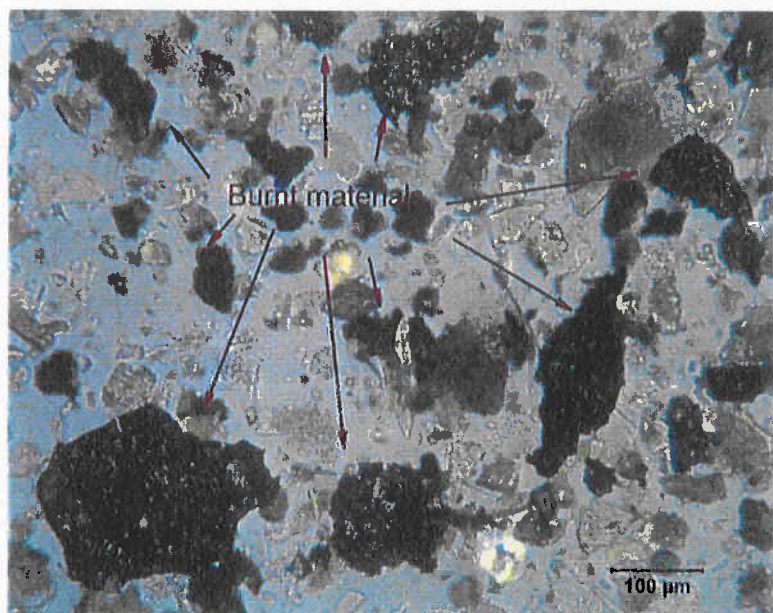
Scraping taken from Glass plate 259-08



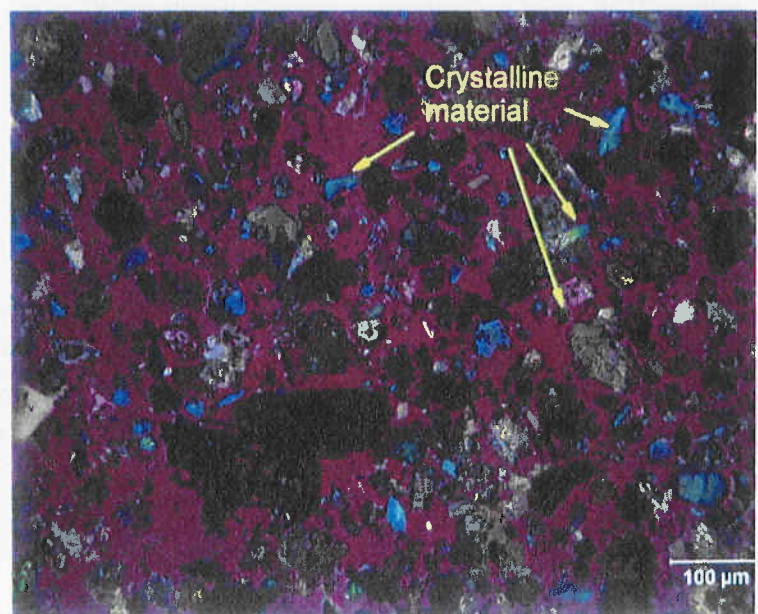
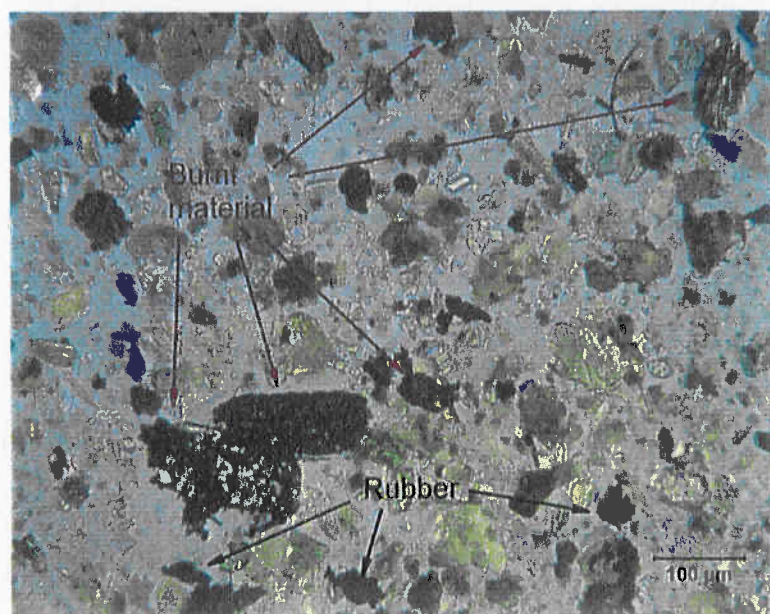
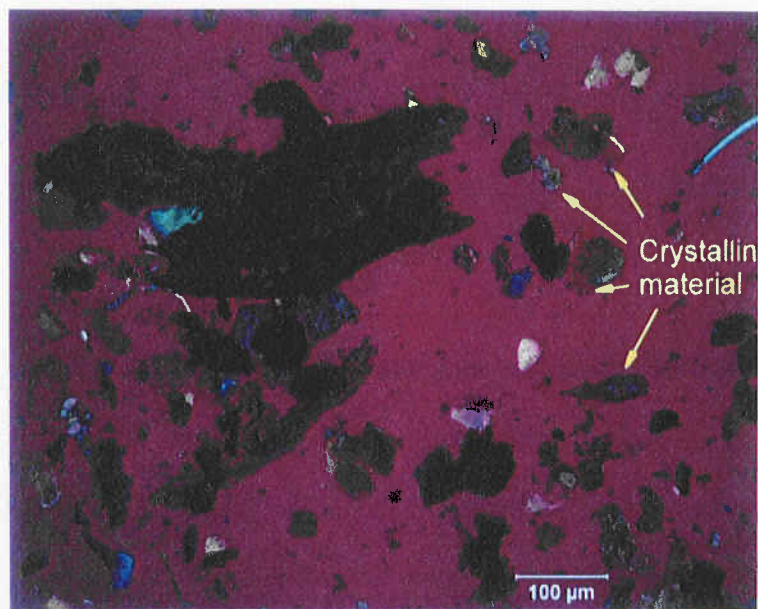
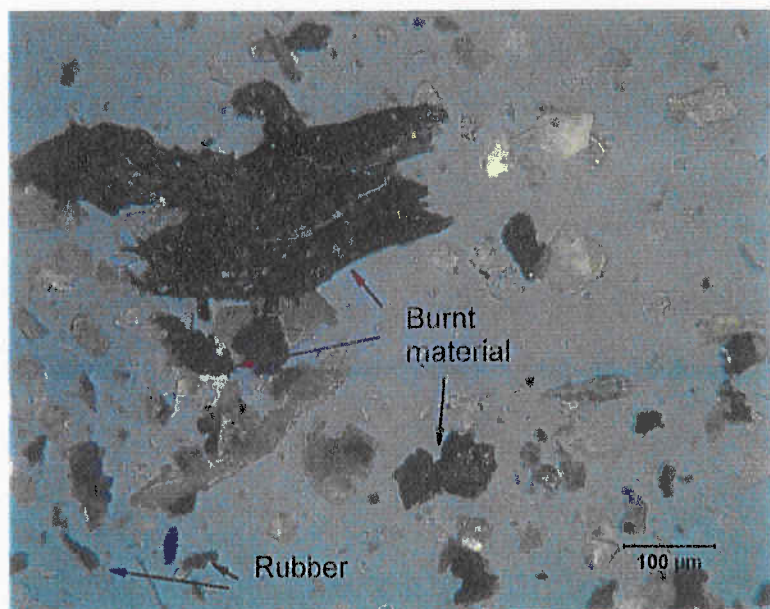
Scraping taken from Glass plate 261-08



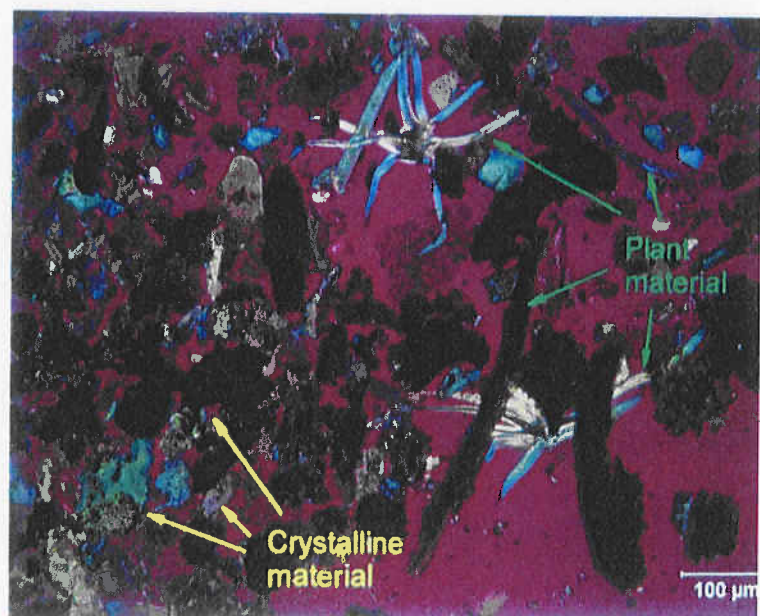
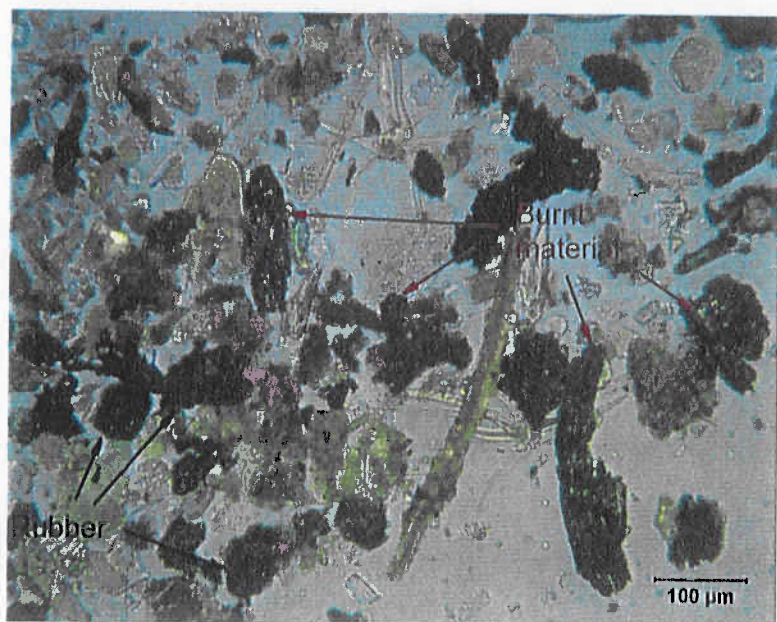
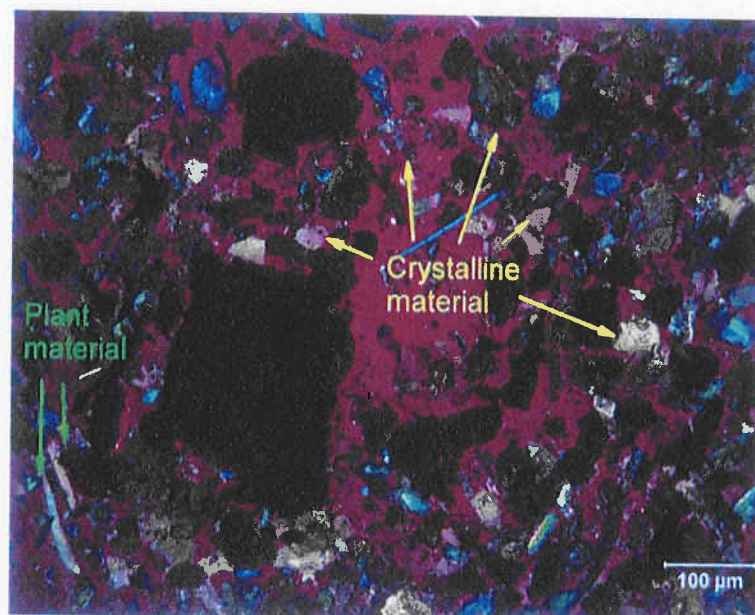
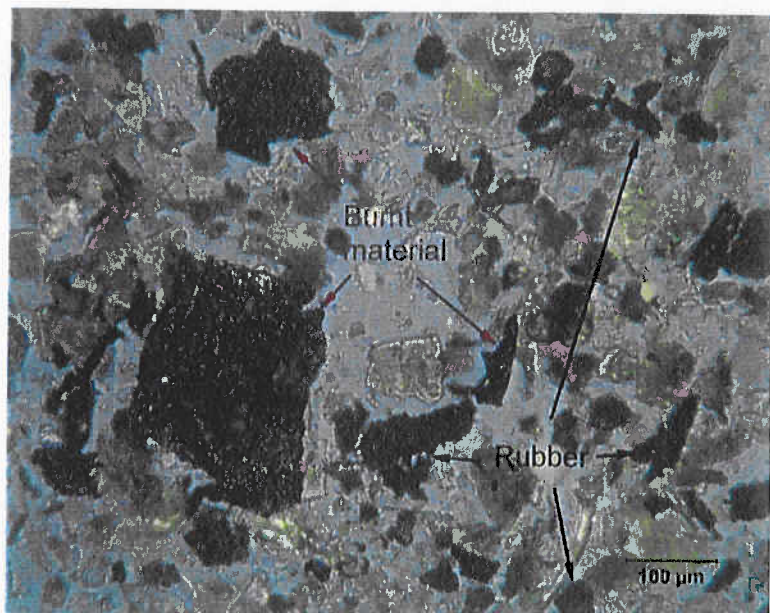
Scraping taken from Glass plate 262-08



Scraping taken from Glass plate 263-08



Scraping taken from Glass plate 264-08



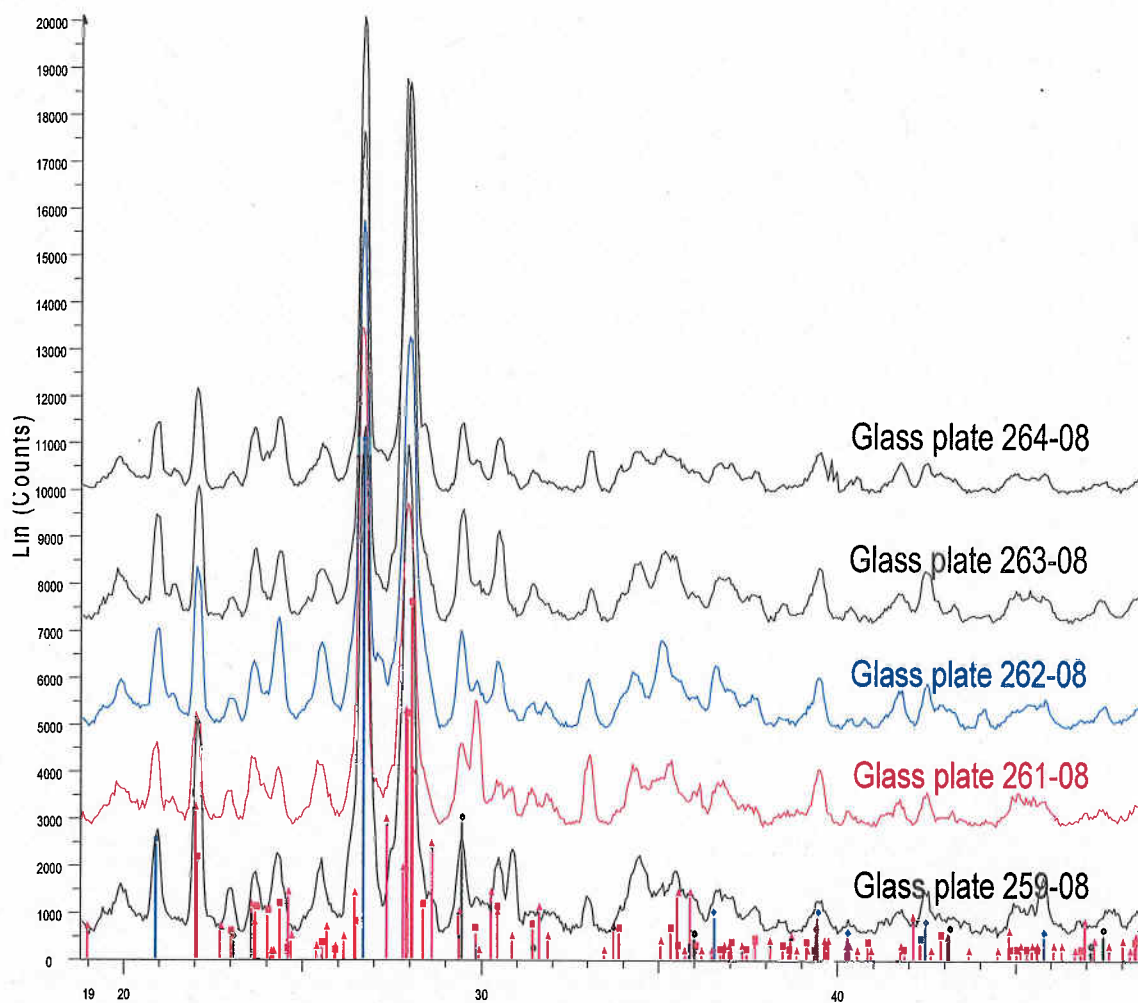
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XRD spectra



2-Theta - Scale

0932804 plate 259-08 - File: 0932804 plate 259-08.raw - Type: 2Th/Th locked - Start: 9.000 °
Operations: Y Scale Add 604 | Background 1.000,1.000 | Import

0932804 plate 261-08 - File: 0932804 plate 261-08.raw - Type: 2Th/Th locked - Start: 9.000 °
Operations: Y Scale Add 2896 | Background 1.000,1.000 | Import

0932804 plate 262-08 - File: 0932804 plate 262-08.raw - Type: 2Th/Th locked - Start: 9.000 °
Operations: Y Scale Add 4958 | Y Scale Mul 0.500 | Background 1.000,1.000 | Import

0932804 plate 263-08 - File: 0932804 plate 263-08.raw - Type: 2Th/Th locked - Start: 9.000 °
Operations: Y Scale Add 7250 | Y Scale Mul 0.833 | Background 1.000,1.000 | Import

0932804 plate 264-08 - File: 0932804 plate 264-08.raw - Type: 2Th/Th locked - Start: 9.000 °
Operations: Y Scale Add 10000 | Y Scale Mul 0.667 | Y Scale Mul 0.667 | Background 1.000

00-033-1161 (*) - Quartz, syn - SiO₂ - Y: 54.47 % - d x by: 1. - WL: 1.5406 - Hexagonal - a 4.

00-005-0586 (I) - Calcite, syn - CaCO₃ - Y: 14.33 % - d x by: 1. - WL: 1.5406 - Rhombo.H. axe

00-041-1480 (I) - Albite, calcian, ordered - (Na,Ca)Al(Si₃Al)O₈ - Y: 37.19 % - d x by: 1. - WL:

00-012-0301 (D) - Anorthite, ordered - CaAl₂Si₂O₈ - Y: 25.69 % - d x by: 1. - WL: 1.5406 - Tr

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☒ DISTRICT INFORMATION

☐ INVOICE SOURCE

LABORATORY NO. 0932804

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

TO: SCAQMD LAB: X OTHER: ☐
SOURCE NAME: Source Unknown PXP CULVER CITY I.D. No. N/A
Source Address: - City: -
Mailing Address: - City: - Zip: -
Contact Person: - Title: - Tel: 0-

Analysis Requested by: AQ Inspector Christian Aviles Date: 11/24/09

Approved by: Rafael Reynosa Office: Compliance Budget #: 50-375

REASON REQUESTED: Court/Hearing Board ☐ Permit Pending ☐ Hazardous/Toxic Spill ☐
Suspected Violation Rule(s) Other ☒ Public Request

Sample Collected by: Gary Gless Date: 11/24/09 Time: 1030

Specify the description and location where the sample was collected:

Glass Plate#: 261-08	259-08	264-08
Location: 5105 Wilderness Lane Culver City, CA	10706 Estrina Way Culver City, CA	5637 ArchCrest Drive Los Angeles, CA
Placed Out: 11/21/09 @ 14:16	11/22/09 @ 10:48	11/20/09 @ 16:10
Recovered: 11/24/09 @ 09:10	11/24/09 @ 09:25	11/24/09 @ 09:35

Glass Plate#: 262-08	^{08 CA} 263-08
Location: 5640 ArchCrest Drive Los Angeles, CA	5215 Overdale Drive (Windsor Hills Elementary) Los Angeles, CA
Placed Out: 11/20/09 @ 16:00	11/22/09 @ 09:38
Recovered: 11/24/09 @ 09:30	11/24/09 @ 09:00

Analysis Requested:

Glass Plate Microscopic General Analysis

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Christian Aviles</u>	<u>Rafael Reynosa</u>	<u>SCAQMD</u>	<u>11-24-09</u>	<u>4:35</u>

Remarks: For Additional Information Please Contact Ed Pupka-Ext. 3332

OR RAFAEL REYNOSA C 2360