Air Quality Monitoring and Sampling Summary Report

Air Quality Monitoring of the Work Zone Perimeter, Localized Weather Patterns and Aggregate Testing

DWR Oroville Dam Emergency Operations
May 05 thru May 18, 2017

Prepared For:

California Department of Water Resources
1416 9th Street
Sacramento, California 95814

Prepared By:

Safety Management Systems, LLC
West Coast Operations – Industrial Hygiene Group
4100 Easton Drive, Suite 7
Bakersfield, CA 93309
Air Quality Monitoring and Sampling Summary Report
May 05 thru May 18, 2017

DWR Oroville Dam Emergency Operations
Document Number

Approved by:

Michael Donlon, P.E., CSP
Department of Water Resources
Chief Safety Officer

Date: June 5, 2017

Michael Parreira
Department of Water Resources
Associate Safety Engineer

Date: June 5, 2017

Compiled by:

David S. Beadle, CIH, CAC
Safety Management Systems, LLC
Industrial Hygiene Project Manager

Date: June 5, 2017
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Summary

The work site activities were stable during this time period and no additional monitoring stations were added. None of the established station were modified, or moved.

Air quality monitoring at all of the perimeter monitoring stations was continuous throughout the time period with few interruptions as noted in this report. All sampling methodology adhered to established protocols and there were no changes or modifications to test methodology.

The air monitoring equipment is inspected throughout the sampling episodes to ensure proper operation and to assess the site conditions which may impact sample results. We experienced one (1) storm during this time period, however, the sampling continued, uninterrupted, regardless of the weather. One (1) of the samples 0509-OFD-BPT-01 was overloaded with dust preventing analysis. A short gap in weather data at WS1 was caused by a battery failure during this monitoring period. Two (2) separate events were noted in the dust particulate monitoring when the zero calibration spanned low, generating negative (-) values and was corrected in the next zero span cycle. All of the equipment is being transitioned, in phases, over to direct current (12 volt DC) with solar charging and battery back-up, to ensure continuous operation, no added noise from the sampling stations and the elimination of the use of generators.

The equipment in the field continues to perform well and meets the sampling design for flow rates, volumes and dependability for the CARB Modified AHERA methodology. Occasionally, post flow calibrations exceed 5% increase/decrease and for those samples, the volumes are calculated using the lower of the values to produce a more conservative structure concentration.

The majority of the asbestos structure counts at the perimeter remain predominantly “None Detected”. Intermittent, detectible concentrations of non-regulated amphibole structures are identified at the Upper Overlook Entry, Diversion Dam, Burma Road and Launch Ramp. The Action Level of 0.005 was not exceeded during this sampling time frame.

It is notable that chrysotile asbestos structures are being detected in several of the samples, yet there is no historical geologic documentation of chrysotile asbestos in the work zones. Chrysotile is often associated with truck brakes and clutches and has been identified as common building material in local building structures and chrysotile asbestos is still a legal and commonly used mineral component in our modern society. Non-asbestos structures are detectible and noted in the sample summary and in the laboratory reports. Non-asbestos structures reported include a contribution from non-regulated amphiboles.
1. Sample Locations

Sample locations are established and/or moved in cooperation and with advanced approval by Butte County Air Quality Management District (BCAQMD). The sites that have been selected best represents the quality of the air as it leaves the “outer work zone perimeter”. Additionally, the locations are chosen based on alignment with “sensitive receptors”.

Sensitive receptors include, but are not limited to, hospitals, schools, daycare facilities, elderly housing and convalescent facilities. These are areas where the occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants. Extra care must be taken when dealing with contaminants and pollutants in close proximity to areas recognized as sensitive receptors.

Table 1 Dust and Asbestos Structure Monitoring Station Locations

<table>
<thead>
<tr>
<th>Station</th>
<th>Location</th>
<th>Way Point ID</th>
<th>Latitude</th>
<th>Longitude</th>
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<tbody>
<tr>
<td>1</td>
<td>Intake Yard</td>
<td>WP 246</td>
<td>39°32'5.50&quot;N</td>
<td>121°28'29.36&quot;W</td>
</tr>
<tr>
<td>2</td>
<td>Upper Overlook Entry</td>
<td>WP 247</td>
<td>39°31'51.40&quot;N</td>
<td>121°28'36.60&quot;W</td>
</tr>
<tr>
<td>3</td>
<td>Upper Overlook</td>
<td>WP 248</td>
<td>39°31'47.50&quot;N</td>
<td>121°28'41.00&quot;W</td>
</tr>
<tr>
<td>4</td>
<td>Canyon Drive</td>
<td>WP 249</td>
<td>39°31'39.70&quot;N</td>
<td>121°28'52.10&quot;W</td>
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<tr>
<td>5</td>
<td>N. Diversion Dam</td>
<td>WP 278</td>
<td>39°31'56.24&quot;N</td>
<td>121°33'01.21&quot;W</td>
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<tr>
<td>6</td>
<td>Diversion Dam Yard</td>
<td>WP 251</td>
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<tr>
<td>7</td>
<td>SE Diversion Dam</td>
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<td>39°31'45.38&quot;N</td>
<td>121°33'07.53&quot;W</td>
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<td>8</td>
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<td>121°33'16.76&quot;W</td>
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<td>121°29'50.00&quot;W</td>
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</table>
Figure 1 Upper Overlook Sample Station Locations

Figure 2 Diversion Dam Sample Station Locations
Figure 3 Burma Road Sampling Station Location

Figure 4 Launch Ramp Sampling Station Locations
2. Sample Time/Rates/Volume

Air monitoring sample data is the crux of the monitoring program at the Oroville Dam project and strict quality assurance procedures are practiced.

The sampling strategy dictates that two (2) twelve (12) +/- hour samples are collected each day, representing a continuous history of dust and asbestos structures that are experienced at the work zone perimeter.

The following tables show the critical information that is collected on each sample and is provided for evaluation of the thoroughness and accuracy of air sampling episodes.

The headings of the tables are explained below:

- **Sample Date** – Date that the sample was started.
- **Sample Number** – A specific and unique alpha-numeric numbering system to identify and track each individual sample throughout the journey from collection, sample shipping preparation and Chain-Of Custody though the laboratory analysis and finally to the report.
- **Chain of Custody (COC)** - In order to use the results of a sampling program as evidence, a written record must be available listing the location of the samples at all times. This is also an important component of good laboratory practices. The COC record is necessary to make a prima facie showing of the integrity of the samples. The samples should be handled only by persons associated in some way with the monitoring program.
- **Pre-flow Rate (l/m)** - The pre-flow rate (liter/minute) is measured using a NIST traceable Primary Standard. Pumps are allowed a warm-up period according to manufactures specifications.
- **Post-flow Rate (l/m)** - The post-flow rate (liter/minute) is measured using a NIST traceable Primary Standard at the end of the sampling cycle.
- **Avg. (l/m)** - The average flow rate (liter/minute) is calculated by averaging the pre and post flow rates.
- **Time On** – Sample Start Time in hours and minutes.
- **Time Off** – Sample Stop Time in hours and minutes.
- **Day/Night Shift** – Identifies the portion of the day when this sample was collected.
- **Total Minutes** – Based on the difference, in minutes, between the start and stop time that the sample was collected.
- **Sample Volume (Liters)** - is calculated by using the total minutes samples multiplied by the average flow rate.
## Table 2 Perimeter - Upper Overlook Sample Time/Rates/Volume

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<th>Sample Date</th>
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<th>Post-flow Rate L/min</th>
<th>Avg L/min</th>
<th>Time On</th>
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<th>Day/Night Shift</th>
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## Launch Ramp Perimeter Samples

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<th>Post-flow Rate (L/min)</th>
<th>Avg (L/min)</th>
<th>Time On</th>
<th>Time Off</th>
<th>Day/Night Shift</th>
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3. Sampling Media and Target Analysis

Dust Monitoring Sample Methods

TSI DustTrak DRX 8533

The DustTrak DRX Aerosol Monitors are laser photometers that simultaneously measure mass and size fraction. These monitors are continuous, real-time, 90° light-scattering laser photometers that simultaneously measure size-segregated mass fraction concentrations corresponding to PM2.5, PM10, and Total PM Size fractions. They combine both particle cloud (total area of scattered light) and single particle detection to achieve mass fraction measurements. This size-segregated mass fraction measurement technique is superior to either a basic photometer or optical particle counter (OPC). It delivers the mass concentration of a photometer and the size resolution of an OPC.

- Photometers can be used at high mass concentration, but they do not give any size information and significantly underestimate large particle mass concentrations.
- OPC’s provide size and count information; however, they do not provide any mass concentration information and cannot be used in high mass concentration environments.

TrakPro software shall be utilized for exposure studies and environmental dust monitoring. TrakPro™ Data Analysis Software is a Microsoft Windows®-based software program that works with a variety of TSI data logging instruments. This software helps pre-program instruments, store and organize test data, and generate detailed graphs and reports needed to effectively communicate results.

Perimeter Air Sample Methods – CARB Modified TEM

Analysis of all air samples shall follow the analytical method specified by the United States Environmental Protection Agency, Asbestos Hazard Emergency Response Act (AHERA) criteria for asbestos (40 CFR, Part 763 Subpart E, Appendix A, adopted October 30, 1987), with the following exceptions CARB Modified TEM):

- The analytical sensitivity shall be 0.001 structures per cubic centimeter (0.001 s/cc); and
- All asbestos structures with an aspect ratio greater than three to one (3 to1) shall be counted irrespective of length.

The results of the analysis of air samples shall be reported as transmission electron microscopy (TEM) asbestos structures per cubic centimeter (s/cc).
The method requires the use of TEM 25 mm air sampling cassettes, designed and manufactured to meet all applicable NIOSH, OSHA, and EPA standards.

Sampling media for perimeter sampling shall comply with the following:

- 0.45 µm pore size, Mixed Cellulose Esther (MCE) Filter Material
- 5.0 µm Filter is placed under the 0.45 µm filter as a diffuser
- 2" Static Conductive Extension Cowl
- Meets AHERA Requirements Asbestos TEM 25 mm 0.45 µm Cassette-Individual
4. Photo Documentation

Figure 5 Photo Documentation of Air Monitoring Stations – Current Condition

<table>
<thead>
<tr>
<th>Station 1 - WP 246 Intake Yard</th>
<th>Station 2 - WP 247 Upper Overlook Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Station 3 – WP 248 Upper Overlook</td>
<td>Station 4 – WP249 Canyon Drive</td>
</tr>
</tbody>
</table>

Page 25 of 104
Station 9 - WP 281 Cherokee  
Station 10 – WP 273 Burma Road  
Station 11 – WP 009A Launch Ramp  
Station 12 – WP 010A Launch Ramp Turnaround
5. Air Sampling Equipment Malfunctions & Corrective Actions

Table 6 - Equipment Failure

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th>Date/Time</th>
<th>EXCEPTION</th>
<th>REMEDY</th>
</tr>
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<tbody>
<tr>
<td>Air Sample Pump</td>
<td>05/16/2017</td>
<td>Pump collecting 0516-OFD-TPT-16 stopped running for unidentified cause.</td>
<td>Pump taken out of service and replaced. Sample was successfully collected for remainder of shift.</td>
</tr>
<tr>
<td>Weather Station</td>
<td>5/12/2017-5/13/2017</td>
<td>Weather Station 1 (WS1) stopped communicating with the receiver during night shift. Technician discovered data gap, performed trouble shooting on unit, discovered the 9 volt battery was fully discharged.</td>
<td>Replace battery on receiver. Change all non-rechargeable batteries on inventory &amp; establish routine battery change out schedule.</td>
</tr>
<tr>
<td>DustTrak DRX 8533</td>
<td>5/11-5/12/2017</td>
<td>WP 249 Canyon Dr - Daily Zero calibration spanned low, but device indicated an acceptable calibration, generating negative (-) values. Following Zero calibration reset baseline and eliminated negative (-) values.</td>
<td>Reviewing daily zero span technique or if device is defective, take out-of-service and repair.</td>
</tr>
<tr>
<td>DustTrak DRX 8533</td>
<td>5/14/2017</td>
<td>WP 247 Upper Overlook - Daily Zero calibration spanned low, but device indicated an acceptable calibration, generating negative (-) values. Following Zero calibration reset baseline and eliminated negative (-) values.</td>
<td>Reviewing daily zero span technique or if device is defective, take out-of-service and repair.</td>
</tr>
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Table 7 – Sample Failure

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<th>Discussion</th>
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</thead>
<tbody>
<tr>
<td>5/9/2017</td>
<td>0509-OFD-BPT-01</td>
<td>WP 017A AM Burma Road – Day shift sample was overloaded with particulate matter (soil) and was unable to be analyzed. PM shift reported no fibers detected.</td>
</tr>
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6. Exceedances & Corrective Actions

Table 8 Exceedance Report

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<tr>
<th>Sample ID</th>
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<th>Non-Asbestos Structures</th>
<th>Asbestos Type</th>
<th># Structures</th>
<th>Analytical Sensitivity (S/cc)</th>
<th>Asbestos Concentration (S/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
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No exceedance events detected during reporting period.
7. **Laboratory Analysis Summary**
Copies of the laboratory reports are included as Appendix A – Laboratory

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<th>Table Heading Explanations</th>
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</thead>
<tbody>
<tr>
<td><strong>Zone</strong></td>
<td>A designation of area of the work zone.</td>
</tr>
<tr>
<td><strong>Sample ID</strong></td>
<td>An alpha-numeric identified, unique to a particular sample.</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>A description of the location where the sample was collected, often accompanied by a way point.</td>
</tr>
<tr>
<td><strong>Non-Asbestos Structures</strong></td>
<td>Non-asbestos minerals that have fibrous morphology and aspect ratio of 3:1, irrespective of length.</td>
</tr>
<tr>
<td><strong>Asbestos Type</strong></td>
<td>Regulated asbestiforms of the following minerals: chrysotile (fibrous serpentine), crocidolite (fibrous riebeckite), amosite (fibrous cummingtonite–grunerite), fibrous tremolite, fibrous actinolite, and fibrous anthophyllite.</td>
</tr>
<tr>
<td><strong>Structure</strong></td>
<td>A microscopic bundle, cluster, fiber, or matrix which may contains asbestos ranked by aspect ratio of 3:1 and length.</td>
</tr>
<tr>
<td><strong>Analytical Sensitivity</strong></td>
<td>The analytical sensitivity is defined as the concentration that would result from the finding of one fiber or structure. The higher the total volume of air pulled through the filter and the more filter area analyzed the lower the analytical sensitivity. The target analytical sensitivity for this method is 0.001 structures per cc of air (s/cc).</td>
</tr>
<tr>
<td><strong>Asbestos Concentration</strong></td>
<td>The asbestos concentration in structures per cc (S/cc) is equal to the analytical sensitivity for that sample multiplied by the number of asbestos structures identified. BCAQMD has approved the DWR Community Action Level at the Perimeter of the Oroville Dam property of 0.005 regulated asbestos structures/cubic centimeter (s/cc) of air.</td>
</tr>
<tr>
<td><strong>Non-Regulated Amphiboles</strong></td>
<td>The laboratory reports these amphiboles as a best practice when the morphological characteristics of these minerals are consistent with regulated asbestiforms. However, the values are not used in determining asbestos concentration.</td>
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Table 9 - 2017.05.05 Laboratory Analysis Summary

<table>
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<th>Zone</th>
<th>Sample ID</th>
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<th>Asbestos Type</th>
<th># Structures</th>
<th>Analytical Sensitivity (S/cc)</th>
<th>Asbestos Concentration (S/cc)</th>
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<td>≥ 5 μm</td>
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### Table 10 - 2017.05.06 Laboratory Analysis Summary

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<th>Non-Asbestos Structures</th>
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<th>Asbestos Concentration (S/cc)</th>
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### Table 11 - 2017.05.07 Laboratory Analysis Summary

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<th>Asbestos Type</th>
<th># Structures</th>
<th>Analytical Sensitivity (S/cc)</th>
<th>Asbestos Concentration (S/cc)</th>
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Non-asbestos structures reported includes a contribution from non-regulated amphiboles.

| **Burma Road**        |                 |                                     |                         |                   |              |                              |                              |
| 0507-OFD-BPT-01       | WP 017A AM Burma | 1                                  | None Detected           |                  |              | 0.0010                        | <0.0010                      |
| 0507-OFD-BPT-02       | WP 017A PM Burma | 0                                  | None Detected           |                  |              | 0.0010                        | <0.0010                      |
| 0507-OFD-BPT-FB1      | Field Blank 1    | 0                                  | None Detected           |                  |              | N/A                          | N/A                          |
| 0507-OFD-BPT-FB2      | Field Blank 2    | 0                                  | None Detected           |                  |              | N/A                          | N/A                          |
Table 12 - 2017.05.08 Laboratory Analysis Summary

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<th>Sample ID</th>
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<th>Non-Asbestos Structures</th>
<th>Asbestos Type</th>
<th># Structures</th>
<th>Analytical Sensitivity (S/cc)</th>
<th>Asbestos Concentration (S/cc)</th>
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<td>0508-OFD-TPT-04</td>
<td>WP 277 - AM SW DIVERSION DAM</td>
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<td>Burma Road</td>
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<td>Asbestos Type</td>
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<td>Analytical Sensitivity (S/cc)</td>
<td>Asbestos Concentration (S/cc)</td>
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<td>Upper Perimeter</td>
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<td>WP 246 - AM Intake Yard</td>
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<td>WP 246 - PM Intake Yard</td>
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<td>Diversion Dam</td>
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<td>WP 278 - AM N. Diversion Dam</td>
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<td>0509-OFD-TPT-FB2</td>
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<td>Burma Road</td>
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<td>WP 017A - AM Burma Rd</td>
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<td>WP 017A - PM Burma Rd</td>
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<td>Launch Ramp</td>
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<td>WP 009A - AM Launch Ramp Parking</td>
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<td>Asbestos Type</td>
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<td>Asbestos Concentration (S/cc)</td>
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<td>≥ 0.5 μm &lt; 5 μm</td>
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<td>Upper Perimeter</td>
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<td>WP 246 - AM INTAKE YARD</td>
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<td>WP 251 - PM DIVERSION DAM YARD</td>
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Table 15 - 2017.05.11 Laboratory Analysis Summary

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Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.
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Non-asbestos structures reported includes a contribution from non-regulated amphiboles.
### Table 19 - 2017.05.15 Laboratory Analysis Summary

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<th>Asbestos Type</th>
<th># Structures</th>
<th>Analytical Sensitivity (S/cc)</th>
<th>Asbestos Concentration (S/cc)</th>
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Non-asbestos structures reported above contain a contribution from non-regulated amphiboles.

Non-asbestos structures reported above contain a contribution from non-regulated amphiboles.
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<td>1</td>
<td>None Detected</td>
<td>0.00010</td>
<td>&lt;0.00010</td>
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<td></td>
<td>0517-ODF-TPT-09</td>
<td>WP 278 - PM N. Diversion Dam</td>
<td>0</td>
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<td>0.00010</td>
<td>&lt;0.00010</td>
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<td>0517-ODF-TPT-11</td>
<td>WP 279 - PM SE Diversion Dam</td>
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<td>&lt;0.00010</td>
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<td>0517-ODF-TPT-12</td>
<td>WP 277 - PM SW Diversion Dam</td>
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<td>0517-ODF-TPT-13</td>
<td>WP 019A - PM</td>
<td>E. Diversion Dam</td>
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<td>0517-ODF-TPT-14</td>
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<td>Burma Road</td>
<td>0517-ODF-BPT-01</td>
<td>WP 017A - AM BURMA ROAD</td>
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<td>None Detected</td>
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<td>WP09A AM LAUNCH RAMP PARKING</td>
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<td>WP09A PM LAUNCH RAMP PARKING</td>
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<td>WP010A PM LAUNCH RAMP TURNAROUND</td>
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<td>0.00010</td>
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Table 22 - 2017.05.18 Laboratory Analysis Summary

| Zone          | Sample ID   | Location             | Non-Asbestos Structures | Asbestos Type | # Structures | Analytical Sensitivity
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<td></td>
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<td></td>
<td></td>
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<td>≥ 0.5 μm &lt; 5 μm</td>
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<td>Upper Perimeter</td>
<td>0518-ODR-PMT-01</td>
<td>WP246 AM INTAKE YARD</td>
<td>4</td>
<td>None Detected</td>
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<td>0518-ODR-PMT-02</td>
<td>WP247 AM UPPER OVERLOOK ENTRY</td>
<td>3</td>
<td>None Detected</td>
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<td>0518-ODR-PMT-03</td>
<td>WP248 AM UPPER OVERLOOK</td>
<td>2</td>
<td>Actinolite</td>
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<td>0518-ODR-PMT-04</td>
<td>WP249 PM CANYON DRIVE</td>
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<td>Actinolite</td>
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<td>0518-ODR-PMT-05</td>
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<td>0518-ODR-PMT-06</td>
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<td>WP248 PM UPPER OVERLOOK</td>
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<td>Actinolite</td>
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<td>Diversion Dam</td>
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<td>WP 278 - AM N. Diversion Dam</td>
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<td>0518-ODR-TPT-02</td>
<td>WP 251 - AM Diversion Dam Yard</td>
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<td>Actinolite</td>
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<td>WP 279 - AM E. Diversion Dam</td>
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<td>0518-ODR-TPT-04</td>
<td>WP 277 - AM SW Diversion Dam</td>
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<td>0518-ODR-TPT-05</td>
<td>WP 019A - AM E, Diversion Dam</td>
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<td>0518-ODR-TPT-06</td>
<td>WP 020A - AM SE Canal</td>
<td>4</td>
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<td>0518-ODR-TPT-07</td>
<td>WP 021A - AM SW Canal</td>
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<td>0518-ODR-TPT-08</td>
<td>WP 281 - AM Cherokee Rd.</td>
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<td>0518-ODR-TPT-11</td>
<td>WP 279 - PM SE Diversion Dam</td>
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<td>0518-ODR-TPT-12</td>
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<td>0</td>
<td>None Detected</td>
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<td>0518-ODR-TPT-13</td>
<td>WP 019A - PM E Diversion Dam</td>
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<td>0518-ODR-TPT-14</td>
<td>WP 020A - PM SE Canal</td>
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<td>None Detected</td>
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<td>0518-ODR-TPT-15</td>
<td>WP 021A - SW Canal</td>
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<td>Burma Road</td>
<td>0518-ODR-BPT-01</td>
<td>WP017A AM Burma</td>
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<td>WP017A PM Burma</td>
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<td>Launch Ramp</td>
<td>WP009A AM Launch Ramp Parking</td>
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<td>None Detected</td>
<td>0.0010</td>
<td>&lt;0.0010</td>
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<td>0518-OFD-LRP-02</td>
<td>WP010A AM Launch Ramp Turnaround</td>
<td>0</td>
<td>None Detected</td>
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<td>WP008A PM Launch Ramp Parking</td>
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<td>0518-OFD-LRP-04</td>
<td>WP010A PM Launch Ramp Turnaround</td>
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<td>None Detected</td>
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<td>0518-OFD-LRP-FB1</td>
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<td>0518-OFD-LRP-FB2</td>
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8. Perimeter Dust Monitoring Summary

The dust monitoring data is compiled in twelve (12) hour increments for day/night shifts. Information is logged for PM10, PM 2.5 and Total Dust.

Particle pollution includes:

PM10: inhalable particles, with diameters that are generally 10 micrometers and smaller; and

PM2.5: fine inhalable particles, with diameters that are generally 2.5 micrometers and smaller.

Total inhalable dust is the fraction of airborne material which enters the nose and mouth during breathing and is therefore liable to deposition anywhere in the respiratory tract. The particle sizes of total inhalable dust are up to 100 microns.

Perimeter dust levels for this time period were unremarkable, with intermittent spikes due to wind gust. There were no citable episode of “visible emissions” at the work zone perimeter.

Dust results are presented in Appendix B.