



Apex Companies, LLC  
3478 Buskirk Avenue, Suite 100 • Pleasant Hill, CA 94523  
P: (925) 944-2856 • F: (925) 944-2859

September 6, 2018

Mr. Adam Schmid  
Duke Realty  
200 Spectrum Center Drive, Suite 1600  
Irvine, CA 92618

**Subject: Phase II Soil Investigation Results**  
**Vacant Land on SE Corner of West Perry Street and Barrett Avenue**  
**Perris, California**

Dear Mr. Schmid:

On behalf of Duke Realty (Duke), Apex Companies, LLC (Apex) has completed a Phase II Soil Investigation at the 7.25-acre property located southeast of the West Perry Street and Barrett Avenue intersection in Perris, California (Site, Figure 1). Apex recently prepared a Phase I Environmental Site Assessment for the Site (dated July 24, 2018), which showed its use as agricultural land from at least 1938 to 1967. The historic usage of the Site as cultivated agricultural land for at least 29 years likely included the application of pesticides and herbicides, as well as the potential application of nitrate containing fertilizers. Based on historical use of the property, Apex recommended conducting a Phase II investigation consisting of collecting shallow soil samples for analysis of pesticides and herbicides to determine impacts from the historical agricultural use. A proposal to conduct the Phase II investigation was provided to Duke on July 27, 2018 and approved on August 14, 2018. This letter summarizes the work performed and the results of the investigation.

#### **Pre-Field Work**

Prior to the start of field work, a Health and Safety Plan was prepared as specified under OSHA 1910.120. The Health and Safety Plan presents a review of the planned activities and the safety precautions required to ensure the safety of workers, the public and the environment.

Prior to initiation of intrusive field activities, a Site visit was performed to mark the proposed soil boring locations and to conduct a preliminary utility survey of the Site. In addition, Underground Service Alert of Southern California (DigAlert) was notified of the proposed work on August 1, 2018 (Ticket #A182131724-00A). Prior to drilling, Apex ensured that all USA service members had either marked their buried utilities or provided a 'no-conflict' verification.

No drilling permits or other permits were required for this scope of work.

#### **Field Investigation**

On August 7, 2018, Apex personnel visited the Site to collect soil samples from the six borings shown on Figure 2 (SB-1 to SB-6). The soil borings were advanced using hand-augers to a depth of

*Phase II Soil Investigation Results*

September 6, 2018

Page 2 of 3

approximately 5 feet below ground surface (bgs). Soil samples were collected from each boring at approximately 0.5, 2, and 5 feet bgs and placed directly from the hand auger into laboratory-supplied containers. The samples were labelled with a unique sample name, the time and date of collection, then logged onto a chain-of-custody manifest and placed on ice in an insulated cooler. The 18 soil samples were transported to American Analytics, a State of California-certified analytical laboratory located in Chatsworth, California, for analysis of organochlorine pesticides using EPA Method 8081A, organophosphorus pesticides using EPA Method 8141, chlorinated herbicides EPA Method 8151A, and for metals using EPA Methods 6010B/7000/7471.

**Investigation Results**

Laboratory analytical results for the 18 samples collected from the Site are summarized on Tables 1 and 2. The results were compared to the lesser of either the U.S. Environmental Protection Agency Regional soil screening levels (USEPA RLs) for commercial/industrial settings, or the California Department of Toxic Substances Control recommended screening levels (DTSC RSLs) for soil in commercial/industrial settings.

The reported metals concentrations (Table 1) do not exceed the screening levels and appear to be typical for soil in the region.

Organophosphorus pesticides and organochlorine herbicides (Table 2) were not detected above the laboratory reporting limits in the soil samples.

Two common organochlorine pesticide compounds were detected in the soil samples at the Site. 4,4'-dichlorodiphenyltrichloroethane (DDT) was detected above the laboratory reporting limits in shallow soil samples (0.5 feet bgs) collected from four borings. DDT was reported at a maximum concentration of 0.0085 mg/kg in sample SB2-0.5', well below the USEPA RSL of 8.5 mg/kg. DDT was not detected in the deeper samples.

The DDT degradation byproduct 4,4'-dichlorodiphenyldichloroethylene (DDE) was detected in samples collected from all six borings at depths of 0.5 feet, in three borings at a depth of 2 feet bgs and in one boring at a depth of 5 feet bgs. The maximum DDE concentration was reported in sample SB2-0.5' at 0.027 mg/kg, also well below its USEPA RSL of 9.3 mg/kg.

**Conclusions and Recommendations**

Comparison of the soil sample analytical results to the USEPA and DTSC screening levels show that the Site is suitable for unrestricted commercial development. Detections of trace concentrations of DDT and DDE are consistent with the past agricultural use of the property and would not be expected to pose a health risk for construction or commercial workers. Metals concentrations also do not exceed USEPA and DTSC screening levels for commercial use and appear to be consistent with background metals concentrations in soil for this region.

Based on the results of this investigation, Apex recommends that no action be taken at this time.

**Closing**

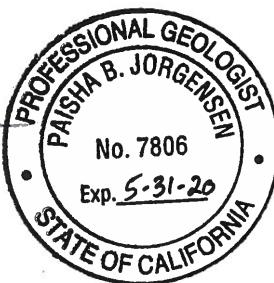
Apex appreciates the opportunity to provide Duke with environmental consulting services. Should you have any questions about the scope of work, the results, conclusions, or any other issues, please call us at (925) 951-6380.

Sincerely,

**Apex Companies, LLC**



Paisha Jorgensen, P.G.  
Principal Geologist



Bob Robitaille  
Senior Geologist

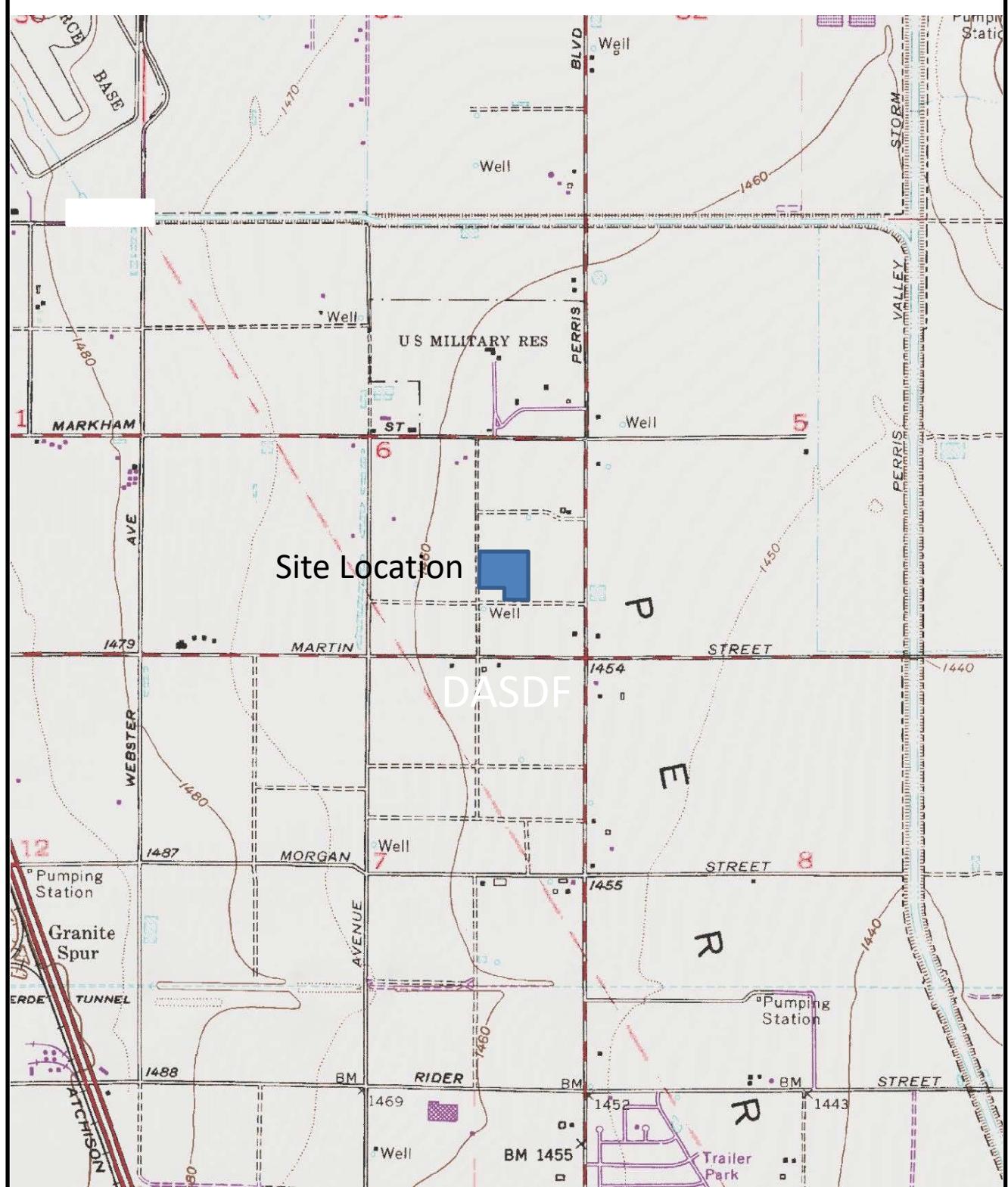
Attachments: Figure 1 – Site Location Map

Figure 2 – Soil Boring Location Map

Table 1 – Summary of Soil Analytical Data – Metals

Table 2 – Summary of Soil Analytical Data – Pesticides/Herbicides

Copy of American Analytics Report #A596169F



3478 BUSKIRK AVENUE, SUITE 100  
PLEASANT HILL, CA 94523

## WEST PERRY STREET PERRIS, CA

## SITE LOCATION MAP

FILE NAME	DATE	DR. BY	APP. BY	PROJECT #	FIGURE #
	7/18/18	DH	PJ	093-DUKE-013	1

**Figure 2**  
**Soil Boring Location Map**

**West Perry Street Property  
Perris, CA**



3478 Buskirk Avenue Suite 100 Pleasant Hill, CA 94523 Telephone: (925) 951-5653	<u>Legend</u> - - - Subject property ● Soil Boring Location	Project: Phase II Investigation Client: Duke Realty Apex Job #: 093-DUKE-013	
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**Table 1**  
**Summary of Soil Analytical Data - Metals**  
Duke Realty  
West Perry Street,  
Perris, California

Sample ID	Sample Depth feet bgs	Sample Date	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Cobalt mg/kg	Copper mg/kg	Lead mg/kg	Molybdenum mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Thallium mg/kg	Vanadium mg/kg	Zinc mg/kg	Mercury mg/kg
USEPA RSL - Commercial/Industrial		470	3	220,000	2,300	980	1,800,000	350	47,000	800	5,800	22,000	5,800	5,800	12	5,800	350,000	46	
DTSC, HHRA Note 3 Screening Level		NE	12*	NE	NE	7.3	170,000	NE	NE	320	NE	3,100	NE	1,500	NE	1,000	NE	4.5	
SB1-0.5	0.5	8/7/2018	<10	<b>0.84</b>	97	<1.0	<1.0	<b>10</b>	<b>5.2</b>	<b>3.7</b>	<b>4.4</b>	<5.0	<b>4.9</b>	<0.50	<1.0	<5.0	<b>26</b>	<b>31</b>	<0.020
SB1-2	2.0	8/7/2018	<10	<b>0.59</b>	<b>120</b>	<1.0	<1.0	<b>11</b>	<b>5.8</b>	<3.0	<3.0	<5.0	<b>5.6</b>	<0.50	<1.0	<5.0	<b>31</b>	<b>26</b>	<0.020
SB1-5	5.0	8/7/2018	<10	<0.50	<b>73</b>	<1.0	<1.0	<b>6.8</b>	<b>3.8</b>	<3.0	<3.0	<5.0	<b>3.2</b>	<0.50	<1.0	<5.0	<b>19</b>	<b>15</b>	<0.020
SB2-0.5	0.5	8/7/2018	<10	<b>0.73</b>	<b>110</b>	<1.0	<1.0	<b>11</b>	<b>6.0</b>	<3.0	<b>4.4</b>	<5.0	<b>5.4</b>	<0.50	<1.0	<5.0	<b>29</b>	<b>28</b>	<0.020
SB2-2	2.0	8/7/2018	<10	<b>1.0</b>	<b>130</b>	<1.0	<1.0	<b>12</b>	<b>6.9</b>	<3.0	<3.0	<5.0	<b>6.0</b>	<0.50	<1.0	<5.0	<b>36</b>	<b>29</b>	<0.020
SB2-5	5.0	8/7/2018	<10	<b>0.75</b>	<b>130</b>	<1.0	<1.0	<b>13</b>	<b>7.6</b>	<3.0	<3.0	<5.0	<b>6.3</b>	<0.50	<1.0	<5.0	<b>42</b>	<b>30</b>	<0.020
SB3-0.5	0.5	8/7/2018	<10	<b>1.00</b>	<b>95</b>	<1.0	<1.0	<b>8.6</b>	<b>4.4</b>	<b>4.6</b>	<b>4.4</b>	<5.0	<b>4.4</b>	<0.50	<1.0	<5.0	<b>23</b>	<b>30</b>	<0.020
SB3-2	2.0	8/7/2018	<10	<0.50	<b>87</b>	<1.0	<1.0	<b>8.5</b>	<b>4.9</b>	<3.0	<3.0	<5.0	<b>4.5</b>	<0.50	<1.0	<5.0	<b>24</b>	<b>20</b>	<0.020
SB3-5	5.0	8/7/2018	<10	<b>0.65</b>	<b>94</b>	<1.0	<1.0	<b>8.2</b>	<b>4.2</b>	<3.0	<b>3.2</b>	<5.0	<b>4.1</b>	<0.50	<1.0	<5.0	<b>22</b>	<b>23</b>	<0.020
SB4-0.5	0.5	8/7/2018	<10	<b>0.55</b>	<b>98</b>	<1.0	<1.0	<b>11</b>	<b>5.5</b>	<3.0	<b>4.8</b>	<5.0	<b>5.4</b>	<0.50	<1.0	<5.0	<b>29</b>	<b>29</b>	<0.020
SB4-2	2.0	8/7/2018	<10	<b>1.4</b>	<b>170</b>	<1.0	<1.0	<b>16</b>	<b>8.2</b>	<3.0	<b>4.2</b>	<5.0	<b>7.8</b>	<0.50	<1.0	<5.0	<b>42</b>	<b>35</b>	<0.020
SB4-5	5.0	8/7/2018	<10	<b>0.78</b>	<b>140</b>	<1.0	<1.0	<b>14</b>	<b>7.1</b>	<3.0	<b>3.4</b>	<5.0	<b>6.8</b>	<0.50	<1.0	<5.0	<b>37</b>	<b>31</b>	<0.020
SB5-0.5	0.5	8/7/2018	<10	<b>1.5</b>	<b>130</b>	<1.0	<1.0	<b>12</b>	<b>6.5</b>	<3.0	<b>4.8</b>	<5.0	<b>6.2</b>	<0.50	<1.0	<5.0	<b>32</b>	<b>33</b>	<0.020
SB5-2	2.0	8/7/2018	<10	<b>0.84</b>	<b>180</b>	<1.0	<1.0	<b>19</b>	<b>9.6</b>	<3.0	<b>4.2</b>	<5.0	<b>9.3</b>	<0.50	<1.0	<5.0	<b>46</b>	<b>35</b>	<0.020
SB5-5	5.0	8/7/2018	<10	<b>1.1</b>	<b>250</b>	<1.0	<1.0	<b>19</b>	<b>9.7</b>	<3.0	<b>3.9</b>	<b>9.3</b>	<3.0	<0.50	<1.0	<5.0	<b>57</b>	<b>37</b>	<0.020
SB6-0.5	0.5	8/7/2018	<10	<b>0.99</b>	<b>120</b>	<1.0	<1.0	<b>12</b>	<b>6.5</b>	<b>3.5</b>	<b>5.6</b>	<5.0	<b>6.1</b>	<0.50	<1.0	<5.0	<b>33</b>	<b>33</b>	<0.020
SB6-2	2.0	8/7/2018	<10	<b>1.5</b>	<b>160</b>	<1.0	<1.0	<b>17</b>	<b>8.9</b>	<3.0	<b>4.4</b>	<5.0	<b>8.5</b>	<0.50	<1.0	<5.0	<b>44</b>	<b>36</b>	<0.020
SB6-5	5.0	8/7/2018	<10	<b>1.1</b>	<b>160</b>	<1.0	<1.0	<b>16</b>	<b>8.2</b>	<3.0	<b>3.1</b>	<5.0	<b>7.5</b>	<0.50	<1.0	<5.0	<b>45</b>	<b>32</b>	<0.020

**Notes:**

bgs = below ground surface.

mg/kg = milligram per kilogram.

USEPA RSL = U.S. Environmental Protection Agency Regional Screening Level, Commercial/Industrial Soil (USEPA, 2018)

DTSC, HHRA Note 3 Screening Level = California Department of Toxic Substances Control, (DTSC January 2018), Recommended Screening Level for Commercial/Industrial Soil. Lesser of cancer or non-cancer endpoint.

\*DTSC recommended screening level based upon southern California background concentrations (Chenoff D. et al.)

NE = No value established.

<10 = not detected at or above the laboratory reporting limit shown.

**Bold values were reported above the laboratory reporting limits.**

**Table 2**  
**Summary of Soil Analytical Data - Pesticides/Herbicides**  
Duke Realty  
West Perry Street,  
Perris, California

Sample ID	Sample Depth feet bgs	Sample Date	4,4'-DDE mg/kg	4,4'-DDT mg/kg	Alpha-Chlordane mg/kg	Dieldrin mg/kg	Gamma-Chlordane mg/kg	Gamma-BHC (Lindane) mg/kg	Endrin mg/kg	Endrin Ketone mg/kg	Methoxychlor mg/kg	Chlordane mg/kg	Other Organochlorine Pesticides mg/kg	Organochlorine Herbicides mg/kg	Organophosphorus Pesticides mg/kg
USEPA RSL - Commercial/Industrial			9.3	8.5	7.7	0.14	7.7	2.5	250	NE	4100	7.7	Varies	Varies	Varies
DTSC, HHRA Note 3 Screening Level			NE	NE	NE	NE	NE	NE	NE	NE	NE	1.5	Varies	Varies	Varies
SB1-0.5	0.5	8/7/2018	<b>0.014</b>	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB1-2	2.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB1-5	5.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB2-0.5	0.5	8/7/2018	<b>0.027</b>	<b>0.0085</b>	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB2-2	2.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB2-5	5.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB3-0.5	0.5	8/7/2018	<b>0.010</b>	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB3-2	2.0	8/7/2018	<b>0.006</b>	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB3-5	5.0	8/7/2018	<b>0.012</b>	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB4-0.5	0.5	8/7/2018	<b>0.016</b>	<b>0.00041</b>	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB4-2	2.0	8/7/2018	<b>0.004</b>	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB4-5	5.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB5-0.5	0.5	8/7/2018	<b>0.019</b>	<b>0.0045</b>	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB5-2	2.0	8/7/2018	<b>0.011</b>	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB5-5	5.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB6-0.5	0.5	8/7/2018	<b>0.023</b>	<b>0.0044</b>	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB6-2	2.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND
SB6-5	5.0	8/7/2018	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	<0.02	<0.02	ND	ND	ND

**Notes:**

DDE = dichlorodiphenyldichloroethylene

DDT = dichlorodiphenyltrichloroethane

USEPA RSL = U.S. Environmental Protection Agency Regional Screening Level, Commercial/Industrial Soil (USEPA, 2018).

DTSC, HHRA Note 3 Screening Level = California Department of Toxic Substances Control, (DTSC January 2018), Recommended Screening Level for Commercial/Industrial Soil. Lesser of cancer or non-cancer endpoint.

bgs = below ground surface.

mg/kg = milligram per kilogram.

NE = No value established.

**Bold values were reported above the laboratory reporting limits.**

ND = Not detected. See laboratory analytical report for details regarding specific compounds.

<0.004 = not detected at or above the laboratory reporting limit shown.



9765 Eton Avenue  
Chatsworth  
California 91311  
Tel: (818) 998-5547  
Fax: (818) 998-7258

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August 20, 2018

Paisha Jorgensen  
The Source Group, Inc. (PH)  
3478 Buskirk Ave., Suite 100  
Pleasant Hill, CA 94523

**Re : Duke - Perris 093 / 013**  
**A596169 / 8H08021**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/08/18 16:52 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<b><u>8081A OCPS</u></b>					
SB6-0.5	8H08021-01	Soil	5	08/07/18 08:40	08/08/18 16:52
SB6-2	8H08021-02	Soil	5	08/07/18 08:49	08/08/18 16:52
SB6-5	8H08021-03	Soil	5	08/07/18 09:00	08/08/18 16:52
SB5-0.5	8H08021-04	Soil	5	08/07/18 09:22	08/08/18 16:52
SB5-2	8H08021-05	Soil	5	08/07/18 09:32	08/08/18 16:52
SB5-5	8H08021-06	Soil	5	08/07/18 09:42	08/08/18 16:52
SB4-0.5	8H08021-07	Soil	5	08/07/18 10:01	08/08/18 16:52
SB4-2	8H08021-08	Soil	5	08/07/18 10:11	08/08/18 16:52
SB4-5	8H08021-09	Soil	5	08/07/18 10:21	08/08/18 16:52
SB3-0.5	8H08021-10	Soil	5	08/07/18 10:40	08/08/18 16:52
SB3-2	8H08021-11	Soil	5	08/07/18 10:49	08/08/18 16:52
SB3-5	8H08021-12	Soil	5	08/07/18 10:58	08/08/18 16:52
SB2-0.5	8H08021-13	Soil	5	08/07/18 12:44	08/08/18 16:52
SB2-2	8H08021-14	Soil	5	08/07/18 12:54	08/08/18 16:52
SB2-5	8H08021-15	Soil	5	08/07/18 13:40	08/08/18 16:52
SB1-0.5	8H08021-16	Soil	5	08/07/18 13:57	08/08/18 16:52
SB1-2	8H08021-17	Soil	5	08/07/18 14:05	08/08/18 16:52
SB1-5	8H08021-18	Soil	5	08/07/18 14:12	08/08/18 16:52

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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### CAM Metals Less Hg 6000/7000

SB6-0.5	8H08021-01	Soil	5	08/07/18 08:40	08/08/18 16:52
SB6-2	8H08021-02	Soil	5	08/07/18 08:49	08/08/18 16:52
SB6-5	8H08021-03	Soil	5	08/07/18 09:00	08/08/18 16:52
SB5-0.5	8H08021-04	Soil	5	08/07/18 09:22	08/08/18 16:52
SB5-2	8H08021-05	Soil	5	08/07/18 09:32	08/08/18 16:52
SB5-5	8H08021-06	Soil	5	08/07/18 09:42	08/08/18 16:52
SB4-0.5	8H08021-07	Soil	5	08/07/18 10:01	08/08/18 16:52
SB4-2	8H08021-08	Soil	5	08/07/18 10:11	08/08/18 16:52
SB4-5	8H08021-09	Soil	5	08/07/18 10:21	08/08/18 16:52
SB3-0.5	8H08021-10	Soil	5	08/07/18 10:40	08/08/18 16:52
SB3-2	8H08021-11	Soil	5	08/07/18 10:49	08/08/18 16:52
SB3-5	8H08021-12	Soil	5	08/07/18 10:58	08/08/18 16:52
SB2-0.5	8H08021-13	Soil	5	08/07/18 12:44	08/08/18 16:52
SB2-2	8H08021-14	Soil	5	08/07/18 12:54	08/08/18 16:52
SB2-5	8H08021-15	Soil	5	08/07/18 13:40	08/08/18 16:52
SB1-0.5	8H08021-16	Soil	5	08/07/18 13:57	08/08/18 16:52
SB1-2	8H08021-17	Soil	5	08/07/18 14:05	08/08/18 16:52
SB1-5	8H08021-18	Soil	5	08/07/18 14:12	08/08/18 16:52

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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### Mercury Total EPA 7470A/7471A

SB6-0.5	8H08021-01	Soil	5	08/07/18 08:40	08/08/18 16:52
SB6-2	8H08021-02	Soil	5	08/07/18 08:49	08/08/18 16:52
SB6-5	8H08021-03	Soil	5	08/07/18 09:00	08/08/18 16:52
SB5-0.5	8H08021-04	Soil	5	08/07/18 09:22	08/08/18 16:52
SB5-2	8H08021-05	Soil	5	08/07/18 09:32	08/08/18 16:52
SB5-5	8H08021-06	Soil	5	08/07/18 09:42	08/08/18 16:52
SB4-0.5	8H08021-07	Soil	5	08/07/18 10:01	08/08/18 16:52
SB4-2	8H08021-08	Soil	5	08/07/18 10:11	08/08/18 16:52
SB4-5	8H08021-09	Soil	5	08/07/18 10:21	08/08/18 16:52
SB3-0.5	8H08021-10	Soil	5	08/07/18 10:40	08/08/18 16:52
SB3-2	8H08021-11	Soil	5	08/07/18 10:49	08/08/18 16:52
SB3-5	8H08021-12	Soil	5	08/07/18 10:58	08/08/18 16:52
SB2-0.5	8H08021-13	Soil	5	08/07/18 12:44	08/08/18 16:52
SB2-2	8H08021-14	Soil	5	08/07/18 12:54	08/08/18 16:52
SB2-5	8H08021-15	Soil	5	08/07/18 13:40	08/08/18 16:52
SB1-0.5	8H08021-16	Soil	5	08/07/18 13:57	08/08/18 16:52
SB1-2	8H08021-17	Soil	5	08/07/18 14:05	08/08/18 16:52
SB1-5	8H08021-18	Soil	5	08/07/18 14:12	08/08/18 16:52

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)      **AA Project No:** A596169  
**Project No:** 013      **Date Received:** 08/08/18  
**Project Name:** Duke - Perris 093      **Date Reported:** 08/20/18  
**Method:** Organochlorine Pesticides by GC EPA 8081A      **Units:** ug/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/10/18	08/10/18	08/10/18	08/10/18
<b>Date Analyzed:</b>	08/10/18	08/10/18	08/10/18	08/10/18
<b>AA ID No:</b>	8H08021-01	8H08021-02	8H08021-03	8H08021-04
<b>Client ID No:</b>	SB6-0.5	SB6-2	SB6-5	SB5-0.5
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### 8081A OCPs (EPA 8081A)

4,4'-DDD	<4.0	<4.0	<4.0	<4.0	4.0
4,4'-DDE	23	<4.0	<4.0	19	4.0
4,4'-DDT	4.4	<4.0	<4.0	4.5	4.0
Aldrin	<2.0	<2.0	<2.0	<2.0	2.0
beta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
delta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
alpha-BHC	<2.0	<2.0	<2.0	<2.0	2.0
gamma-BHC (Lindane)	<4.0	<4.0	<4.0	<4.0	4.0
gamma-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
alpha-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
Chlordane	<20	<20	<20	<20	20
Dieldrin	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan I	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan II	<4.0	<4.0	<4.0	<4.0	4.0
Endosulfan sulfate	<4.0	<4.0	<4.0	<4.0	4.0
Endrin	<4.0	<4.0	<4.0	<4.0	4.0
Endrin aldehyde	<4.0	<4.0	<4.0	<4.0	4.0
Endrin ketone	<4.0	<4.0	<4.0	<4.0	4.0
Heptachlor	<2.0	<2.0	<2.0	<2.0	2.0
Heptachlor epoxide	<2.0	<2.0	<2.0	<2.0	2.0
Methoxychlor	<20	<20	<20	<20	20
Toxaphene	<100	<100	<100	<100	100

<b>Surrogates</b>					<b>%REC Limits</b>
Decachlorobiphenyl	99%	84%	73%	87%	50-150
Tetrachloro-meta-xylene	59%	50%	52%	62%	50-150

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)      **AA Project No:** A596169  
**Project No:** 013      **Date Received:** 08/08/18  
**Project Name:** Duke - Perris 093      **Date Reported:** 08/20/18  
**Method:** Organochlorine Pesticides by GC EPA 8081A      **Units:** ug/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18	
<b>Date Prepared:</b>	08/10/18	08/10/18	08/10/18	08/10/18	
<b>Date Analyzed:</b>	08/10/18	08/10/18	08/10/18	08/10/18	
<b>AA ID No:</b>	8H08021-05	8H08021-06	8H08021-07	8H08021-08	
<b>Client ID No:</b>	SB5-2	SB5-5	SB4-0.5	SB4-2	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### 8081A OCPs (EPA 8081A)

4,4'-DDD	<4.0	<4.0	<4.0	<4.0	4.0
4,4'-DDE	11	<4.0	16	4.0	4.0
4,4'-DDT	<4.0	<4.0	4.1	<4.0	4.0
Aldrin	<2.0	<2.0	<2.0	<2.0	2.0
beta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
delta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
alpha-BHC	<2.0	<2.0	<2.0	<2.0	2.0
gamma-BHC (Lindane)	<4.0	<4.0	<4.0	<4.0	4.0
gamma-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
alpha-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
Chlordane	<20	<20	<20	<20	20
Dieldrin	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan I	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan II	<4.0	<4.0	<4.0	<4.0	4.0
Endosulfan sulfate	<4.0	<4.0	<4.0	<4.0	4.0
Endrin	<4.0	<4.0	<4.0	<4.0	4.0
Endrin aldehyde	<4.0	<4.0	<4.0	<4.0	4.0
Endrin ketone	<4.0	<4.0	<4.0	<4.0	4.0
Heptachlor	<2.0	<2.0	<2.0	<2.0	2.0
Heptachlor epoxide	<2.0	<2.0	<2.0	<2.0	2.0
Methoxychlor	<20	<20	<20	<20	20
Toxaphene	<100	<100	<100	<100	100

<b>Surrogates</b>					<b>%REC Limits</b>
Decachlorobiphenyl	81%	75%	86%	83%	50-150
Tetrachloro-meta-xylene	62%	55%	69%	54%	50-150

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)      **AA Project No:** A596169  
**Project No:** 013      **Date Received:** 08/08/18  
**Project Name:** Duke - Perris 093      **Date Reported:** 08/20/18  
**Method:** Organochlorine Pesticides by GC EPA 8081A      **Units:** ug/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/10/18	08/10/18	08/10/18	08/10/18
<b>Date Analyzed:</b>	08/10/18	08/10/18	08/11/18	08/11/18
<b>AA ID No:</b>	8H08021-09	8H08021-10	8H08021-11	8H08021-12
<b>Client ID No:</b>	SB4-5	SB3-0.5	SB3-2	SB3-5
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### 8081A OCPs (EPA 8081A)

4,4'-DDD	<4.0	<4.0	<4.0	<4.0	4.0
4,4'-DDE	<4.0	<b>10</b>	<b>6.0</b>	<b>12</b>	4.0
4,4'-DDT	<4.0	<4.0	<4.0	<4.0	4.0
Aldrin	<2.0	<2.0	<2.0	<2.0	2.0
beta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
delta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
alpha-BHC	<2.0	<2.0	<2.0	<2.0	2.0
gamma-BHC (Lindane)	<4.0	<4.0	<4.0	<4.0	4.0
gamma-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
alpha-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
Chlordane	<20	<20	<20	<20	20
Dieldrin	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan I	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan II	<4.0	<4.0	<4.0	<4.0	4.0
Endosulfan sulfate	<4.0	<4.0	<4.0	<4.0	4.0
Endrin	<4.0	<4.0	<4.0	<4.0	4.0
Endrin aldehyde	<4.0	<4.0	<4.0	<4.0	4.0
Endrin ketone	<4.0	<4.0	<4.0	<4.0	4.0
Heptachlor	<2.0	<2.0	<2.0	<2.0	2.0
Heptachlor epoxide	<2.0	<2.0	<2.0	<2.0	2.0
Methoxychlor	<20	<20	<20	<20	20
Toxaphene	<100	<100	<100	<100	100

<b>Surrogates</b>	<b>%REC Limits</b>			
Decachlorobiphenyl	75%	89%	82%	95% 50-150
Tetrachloro-meta-xylene	58%	58%	56%	56% 50-150

**Viorel Vasile**  
Operations Manager

LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)      **AA Project No:** A596169  
**Project No:** 013      **Date Received:** 08/08/18  
**Project Name:** Duke - Perris 093      **Date Reported:** 08/20/18  
**Method:** Organochlorine Pesticides by GC EPA 8081A      **Units:** ug/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/10/18	08/10/18	08/10/18	08/10/18
<b>Date Analyzed:</b>	08/11/18	08/11/18	08/11/18	08/11/18
<b>AA ID No:</b>	8H08021-13	8H08021-14	8H08021-15	8H08021-16
<b>Client ID No:</b>	SB2-0.5	SB2-2	SB2-5	SB1-0.5
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

8081A OCPs (EPA 8081A)

4,4'-DDD	<4.0	<4.0	<4.0	<4.0	4.0
4,4'-DDE	27	<4.0	<4.0	14	4.0
4,4'-DDT	8.5	<4.0	<4.0	<4.0	4.0
Aldrin	<2.0	<2.0	<2.0	<2.0	2.0
beta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
delta-BHC	<2.0	<2.0	<2.0	<2.0	2.0
alpha-BHC	<2.0	<2.0	<2.0	<2.0	2.0
gamma-BHC (Lindane)	<4.0	<4.0	<4.0	<4.0	4.0
gamma-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
alpha-Chlordane	<4.0	<4.0	<4.0	<4.0	4.0
Chlordane	<20	<20	<20	<20	20
Dieldrin	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan I	<2.0	<2.0	<2.0	<2.0	2.0
Endosulfan II	<4.0	<4.0	<4.0	<4.0	4.0
Endosulfan sulfate	<4.0	<4.0	<4.0	<4.0	4.0
Endrin	<4.0	<4.0	<4.0	<4.0	4.0
Endrin aldehyde	<4.0	<4.0	<4.0	<4.0	4.0
Endrin ketone	<4.0	<4.0	<4.0	<4.0	4.0
Heptachlor	<2.0	<2.0	<2.0	<2.0	2.0
Heptachlor epoxide	<2.0	<2.0	<2.0	<2.0	2.0
Methoxychlor	<20	<20	<20	<20	20
Toxaphene	<100	<100	<100	<100	100

<b>Surrogates</b>					<b>%REC Limits</b>
Decachlorobiphenyl	84%	83%	71%	71%	50-150
Tetrachloro-meta-xylene	53%	55%	52%	53%	50-150

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Organochlorine Pesticides by GC EPA 8081A

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** ug/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	
<b>Date Prepared:</b>	08/10/18	08/10/18	
<b>Date Analyzed:</b>	08/11/18	08/11/18	
<b>AA ID No:</b>	8H08021-17	8H08021-18	
<b>Client ID No:</b>	SB1-2	SB1-5	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### 8081A OCPs (EPA 8081A)

4,4'-DDD	<4.0	<4.0	4.0
4,4'-DDE	<4.0	<4.0	4.0
4,4'-DDT	<4.0	<4.0	4.0
Aldrin	<2.0	<2.0	2.0
beta-BHC	<2.0	<2.0	2.0
delta-BHC	<2.0	<2.0	2.0
alpha-BHC	<2.0	<2.0	2.0
gamma-BHC (Lindane)	<4.0	<4.0	4.0
gamma-Chlordane	<4.0	<4.0	4.0
alpha-Chlordane	<4.0	<4.0	4.0
Chlordane	<20	<20	20
Dieldrin	<2.0	<2.0	2.0
Endosulfan I	<2.0	<2.0	2.0
Endosulfan II	<4.0	<4.0	4.0
Endosulfan sulfate	<4.0	<4.0	4.0
Endrin	<4.0	<4.0	4.0
Endrin aldehyde	<4.0	<4.0	4.0
Endrin ketone	<4.0	<4.0	4.0
Heptachlor	<2.0	<2.0	2.0
Heptachlor epoxide	<2.0	<2.0	2.0
Methoxychlor	<20	<20	20
Toxaphene	<100	<100	100

<b>Surrogates</b>	<b>%REC Limits</b>		
Decachlorobiphenyl	85%	69%	50-150
Tetrachloro-meta-xylene	54%	51%	50-150

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18	
<b>Date Prepared:</b>	08/13/18	08/13/18	08/13/18	08/13/18	
<b>Date Analyzed:</b>	08/15/18	08/15/18	08/15/18	08/15/18	
<b>AA ID No:</b>	8H08021-01	8H08021-02	8H08021-03	8H08021-04	
<b>Client ID No:</b>	SB6-0.5	SB6-2	SB6-5	SB5-0.5	
<b>Matrix:</b>	Soil	Soil	Soil	Soil	
<b>Dilution Factor:</b>	1	1	1	1	MRL

### CAM Metals Less Hg 6000/7000 (EPA 6010B/7000)

Antimony	<10	<10	<10	<10	10
Arsenic	<b>0.99</b>	<b>1.5</b>	<b>1.1</b>	<b>1.5</b>	0.50
Barium	<b>120</b>	<b>160</b>	<b>160</b>	<b>130</b>	10
Beryllium	<1.0	<1.0	<1.0	<1.0	1.0
Cadmium	<1.0	<1.0	<1.0	<1.0	1.0
Chromium	<b>12</b>	<b>17</b>	<b>16</b>	<b>12</b>	3.0
Cobalt	<b>6.5</b>	<b>8.9</b>	<b>8.2</b>	<b>6.5</b>	3.0
Copper	<b>3.5</b>	<3.0	<3.0	<3.0	3.0
Lead	<b>5.6</b>	<b>4.4</b>	<b>3.1</b>	<b>4.8</b>	3.0
Molybdenum	<5.0	<5.0	<5.0	<5.0	5.0
Nickel	<b>6.1</b>	<b>8.5</b>	<b>7.5</b>	<b>6.2</b>	3.0
Selenium	<0.50	<0.50	<0.50	<0.50	0.50
Silver	<1.0	<1.0	<1.0	<1.0	1.0
Thallium	<5.0	<5.0	<5.0	<5.0	5.0
Vanadium	<b>33</b>	<b>44</b>	<b>45</b>	<b>32</b>	10
Zinc	<b>33</b>	<b>36</b>	<b>32</b>	<b>33</b>	3.0

  
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**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/13/18	08/13/18	08/13/18	08/13/18
<b>Date Analyzed:</b>	08/15/18	08/15/18	08/15/18	08/15/18
<b>AA ID No:</b>	8H08021-05	8H08021-06	8H08021-07	8H08021-08
<b>Client ID No:</b>	SB5-2	SB5-5	SB4-0.5	SB4-2
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### CAM Metals Less Hg 6000/7000 (EPA 6010B/7000)

Antimony	<10	<10	<10	<10	10
Arsenic	<b>0.84</b>	<b>1.1</b>	<b>0.55</b>	<b>1.4</b>	0.50
Barium	<b>180</b>	<b>250</b>	<b>98</b>	<b>170</b>	10
Beryllium	<1.0	<1.0	<1.0	<1.0	1.0
Cadmium	<1.0	<1.0	<1.0	<1.0	1.0
Chromium	<b>19</b>	<b>19</b>	<b>11</b>	<b>16</b>	3.0
Cobalt	<b>9.6</b>	<b>9.7</b>	<b>5.5</b>	<b>8.2</b>	3.0
Copper	<3.0	<3.0	<3.0	<3.0	3.0
Lead	<b>4.2</b>	<b>3.9</b>	<b>4.8</b>	<b>4.2</b>	3.0
Molybdenum	<5.0	<b>9.3</b>	<5.0	<5.0	5.0
Nickel	<b>9.3</b>	<3.0	<b>5.4</b>	<b>7.8</b>	3.0
Selenium	<0.50	<0.50	<0.50	<0.50	0.50
Silver	<1.0	<1.0	<1.0	<1.0	1.0
Thallium	<5.0	<5.0	<5.0	<5.0	5.0
Vanadium	<b>46</b>	<b>57</b>	<b>29</b>	<b>42</b>	10
Zinc	<b>35</b>	<b>37</b>	<b>29</b>	<b>35</b>	3.0

  
**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/13/18	08/13/18	08/13/18	08/13/18
<b>Date Analyzed:</b>	08/15/18	08/15/18	08/15/18	08/15/18
<b>AA ID No:</b>	8H08021-09	8H08021-10	8H08021-11	8H08021-12
<b>Client ID No:</b>	SB4-5	SB3-0.5	SB3-2	SB3-5
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### CAM Metals Less Hg 6000/7000 (EPA 6010B/7000)

Antimony	<10	<10	<10	<10	10
Arsenic	<b>0.78</b>	<b>1.0</b>	<0.50	<b>0.65</b>	0.50
Barium	<b>140</b>	<b>95</b>	<b>87</b>	<b>94</b>	10
Beryllium	<1.0	<1.0	<1.0	<1.0	1.0
Cadmium	<1.0	<1.0	<1.0	<1.0	1.0
Chromium	<b>14</b>	<b>8.6</b>	<b>8.5</b>	<b>8.2</b>	3.0
Cobalt	<b>7.1</b>	<b>4.4</b>	<b>4.9</b>	<b>4.2</b>	3.0
Copper	<3.0	<b>4.6</b>	<3.0	<3.0	3.0
Lead	<b>3.4</b>	<b>4.4</b>	<3.0	<b>3.2</b>	3.0
Molybdenum	<5.0	<5.0	<5.0	<5.0	5.0
Nickel	<b>6.8</b>	<b>4.4</b>	<b>4.5</b>	<b>4.1</b>	3.0
Selenium	<0.50	<0.50	<0.50	<0.50	0.50
Silver	<1.0	<1.0	<1.0	<1.0	1.0
Thallium	<5.0	<5.0	<5.0	<5.0	5.0
Vanadium	<b>37</b>	<b>23</b>	<b>24</b>	<b>22</b>	10
Zinc	<b>31</b>	<b>30</b>	<b>20</b>	<b>23</b>	3.0

  
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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/13/18	08/13/18	08/13/18	08/13/18
<b>Date Analyzed:</b>	08/15/18	08/15/18	08/15/18	08/15/18
<b>AA ID No:</b>	8H08021-13	8H08021-14	8H08021-15	8H08021-16
<b>Client ID No:</b>	SB2-0.5	SB2-2	SB2-5	SB1-0.5
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### CAM Metals Less Hg 6000/7000 (EPA 6010B/7000)

Antimony	<10	<10	<10	<10	10
Arsenic	<b>0.73</b>	<b>1.0</b>	<b>0.75</b>	<b>0.84</b>	0.50
Barium	<b>110</b>	<b>130</b>	<b>130</b>	<b>97</b>	10
Beryllium	<1.0	<1.0	<1.0	<1.0	1.0
Cadmium	<1.0	<1.0	<1.0	<1.0	1.0
Chromium	<b>11</b>	<b>12</b>	<b>13</b>	<b>10</b>	3.0
Cobalt	<b>6.0</b>	<b>6.9</b>	<b>7.6</b>	<b>5.2</b>	3.0
Copper	<3.0	<3.0	<3.0	<b>3.7</b>	3.0
Lead	<b>4.4</b>	<3.0	<3.0	<b>4.4</b>	3.0
Molybdenum	<5.0	<5.0	<5.0	<5.0	5.0
Nickel	<b>5.4</b>	<b>6.0</b>	<b>6.3</b>	<b>4.9</b>	3.0
Selenium	<0.50	<0.50	<0.50	<0.50	0.50
Silver	<1.0	<1.0	<1.0	<1.0	1.0
Thallium	<5.0	<5.0	<5.0	<5.0	5.0
Vanadium	<b>29</b>	<b>36</b>	<b>42</b>	<b>26</b>	10
Zinc	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	3.0

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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	
<b>Date Prepared:</b>	08/13/18	08/13/18	
<b>Date Analyzed:</b>	08/15/18	08/15/18	
<b>AA ID No:</b>	8H08021-17	8H08021-18	
<b>Client ID No:</b>	SB1-2	SB1-5	
<b>Matrix:</b>	Soil	Soil	
<b>Dilution Factor:</b>	1	1	MRL

### CAM Metals Less Hg 6000/7000 (EPA 6010B/7000)

Antimony	<10	<10	10
Arsenic	<b>0.59</b>	<0.50	0.50
Barium	<b>120</b>	<b>73</b>	10
Beryllium	<1.0	<1.0	1.0
Cadmium	<1.0	<1.0	1.0
Chromium	<b>11</b>	<b>6.8</b>	3.0
Cobalt	<b>5.8</b>	<b>3.8</b>	3.0
Copper	<3.0	<3.0	3.0
Lead	<3.0	<3.0	3.0
Molybdenum	<5.0	<5.0	5.0
Nickel	<b>5.6</b>	<b>3.2</b>	3.0
Selenium	<0.50	<0.50	0.50
Silver	<1.0	<1.0	1.0
Thallium	<5.0	<5.0	5.0
Vanadium	<b>31</b>	<b>19</b>	10
Zinc	<b>26</b>	<b>15</b>	3.0

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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/14/18	08/14/18	08/14/18	08/14/18
<b>Date Analyzed:</b>	08/14/18	08/14/18	08/14/18	08/14/18
<b>AA ID No:</b>	8H08021-01	8H08021-02	8H08021-03	8H08021-04
<b>Client ID No:</b>	SB6-0.5	SB6-2	SB6-5	SB5-0.5
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### Mercury Total EPA 7470A/7471A (EPA 7471A)

Mercury	<0.020	<0.020	<0.020	<0.020	0.020
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## LABORATORY ANALYSIS RESULTS

<b>Client:</b>	The Source Group, Inc. (PH)	<b>AA Project No:</b>	A596169
<b>Project No:</b>	013	<b>Date Received:</b>	08/08/18
<b>Project Name:</b>	Duke - Perris 093	<b>Date Reported:</b>	08/20/18
<b>Method:</b>	Total Metals CAM 17	<b>Units:</b>	mg/kg
<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/14/18	08/14/18	08/14/18
<b>Date Analyzed:</b>	08/14/18	08/14/18	08/14/18
<b>AA ID No:</b>	8H08021-05	8H08021-06	8H08021-07
<b>Client ID No:</b>	SB5-2	SB5-5	SB4-0.5
<b>Matrix:</b>	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1
			MRL

### Mercury Total EPA 7470A/7471A (EPA 7471A)

Mercury	<0.020	<0.020	<0.020	<0.020	0.020
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## LABORATORY ANALYSIS RESULTS

<b>Client:</b>	The Source Group, Inc. (PH)	<b>AA Project No:</b>	A596169
<b>Project No:</b>	013	<b>Date Received:</b>	08/08/18
<b>Project Name:</b>	Duke - Perris 093	<b>Date Reported:</b>	08/20/18
<b>Method:</b>	Total Metals CAM 17	<b>Units:</b>	mg/kg
<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/14/18	08/14/18	08/14/18
<b>Date Analyzed:</b>	08/14/18	08/14/18	08/14/18
<b>AA ID No:</b>	8H08021-09	8H08021-10	8H08021-11
<b>Client ID No:</b>	SB4-5	SB3-0.5	SB3-2
<b>Matrix:</b>	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1
			MRL

### Mercury Total EPA 7470A/7471A (EPA 7471A)

Mercury	<0.020	<0.020	<0.020	<0.020	0.020
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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

<b>Date Sampled:</b>	08/07/18	08/07/18	08/07/18	08/07/18
<b>Date Prepared:</b>	08/14/18	08/14/18	08/14/18	08/14/18
<b>Date Analyzed:</b>	08/14/18	08/14/18	08/14/18	08/14/18
<b>AA ID No:</b>	8H08021-13	8H08021-14	8H08021-15	8H08021-16
<b>Client ID No:</b>	SB2-0.5	SB2-2	SB2-5	SB1-0.5
<b>Matrix:</b>	Soil	Soil	Soil	Soil
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### Mercury Total EPA 7470A/7471A (EPA 7471A)

Mercury	<0.020	<0.020	<0.020	<0.020	0.020
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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093  
**Method:** Total Metals CAM 17

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18  
**Units:** mg/kg

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<b>Date Sampled:</b>	08/07/18	08/07/18
<b>Date Prepared:</b>	08/14/18	08/14/18
<b>Date Analyzed:</b>	08/14/18	08/14/18
<b>AA ID No:</b>	8H08021-17	8H08021-18
<b>Client ID No:</b>	SB1-2	SB1-5
<b>Matrix:</b>	Soil	Soil
<b>Dilution Factor:</b>	1	1

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### Mercury Total EPA 7470A/7471A (EPA 7471A)

Mercury	<0.020	<0.020	0.020
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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
<b>Organochlorine Pesticides by GC EPA 8081A - Quality Control</b>										
<i>Batch B8H1001 - EPA 3550B</i>										
<b>Blank (B8H1001-BLK1)</b>										
4,4'-DDD	<4.0	4.0	ug/kg							
4,4'-DDE	<4.0	4.0	ug/kg							
4,4'-DDT	<4.0	4.0	ug/kg							
Aldrin	<2.0	2.0	ug/kg							
beta-BHC	<2.0	2.0	ug/kg							
delta-BHC	<2.0	2.0	ug/kg							
alpha-BHC	<2.0	2.0	ug/kg							
gamma-BHC (Lindane)	<4.0	4.0	ug/kg							
gamma-Chlordane	<4.0	4.0	ug/kg							
alpha-Chlordane	<4.0	4.0	ug/kg							
Chlordane	<20	20	ug/kg							
Dieldrin	<2.0	2.0	ug/kg							
Endosulfan I	<2.0	2.0	ug/kg							
Endosulfan II	<4.0	4.0	ug/kg							
Endosulfan sulfate	<4.0	4.0	ug/kg							
Endrin	<4.0	4.0	ug/kg							
Endrin aldehyde	<4.0	4.0	ug/kg							
Endrin ketone	<4.0	4.0	ug/kg							
Heptachlor	<2.0	2.0	ug/kg							
Heptachlor epoxide	<2.0	2.0	ug/kg							
Methoxychlor	<20	20	ug/kg							
Toxaphene	<100	100	ug/kg							
Surrogate: Decachlorobiphenyl	3.68		ug/kg	5.0		73.5	50-150			
Surrogate: Tetrachloro-meta-xylene	2.73		ug/kg	5.0		54.6	50-150			
<b>LCS (B8H1001-BS1)</b>										
4,4'-DDD	<b>4.73</b>	4.0	ug/kg	5.0		94.6	60-140			
4,4'-DDE	<b>4.49</b>	4.0	ug/kg	5.0		89.7	60-140			
4,4'-DDT	<b>4.72</b>	4.0	ug/kg	5.0		94.4	60-140			
Aldrin	<b>3.69</b>	2.0	ug/kg	5.0		73.7	60-140			
beta-BHC	<b>5.72</b>	2.0	ug/kg	5.0		114	60-140			
delta-BHC	<b>4.39</b>	2.0	ug/kg	5.0		87.8	60-140			

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Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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### Organochlorine Pesticides by GC EPA 8081A - Quality Control

Batch B8H1001 - EPA 3550B

#### LCS (B8H1001-BS1) Continued

Prepared & Analyzed: 08/10/18

alpha-BHC	3.67	2.0	ug/kg	5.0	73.4	60-140				
gamma-BHC (Lindane)	3.94	4.0	ug/kg	5.0	78.8	60-140				
gamma-Chlordane	4.27	4.0	ug/kg	5.0	85.5	60-140				
alpha-Chlordane	4.37	4.0	ug/kg	5.0	87.5	60-140				
Dieldrin	3.97	2.0	ug/kg	5.0	79.4	60-140				
Endosulfan I	4.20	2.0	ug/kg	5.0	84.0	60-140				
Endosulfan II	4.76	4.0	ug/kg	5.0	95.2	60-140				
Endosulfan sulfate	5.60	4.0	ug/kg	5.0	112	60-140				
Endrin	4.48	4.0	ug/kg	5.0	89.5	60-140				
Endrin aldehyde	5.18	4.0	ug/kg	5.0	104	60-140				
Endrin ketone	4.68	4.0	ug/kg	5.0	93.6	60-140				
Heptachlor	4.04	2.0	ug/kg	5.0	80.9	60-140				
Heptachlor epoxide	4.08	2.0	ug/kg	5.0	81.6	60-140				
Methoxychlor	5.59	20	ug/kg	5.0	112	60-140				

Surrogate: Decachlorobiphenyl	3.95		ug/kg	5.0	79.1	50-150				
Surrogate: Tetrachloro-meta-xylene	2.14		ug/kg	5.0	42.8	50-150				S-GC

#### LCS Dup (B8H1001-BSD1)

Prepared & Analyzed: 08/10/18

4,4'-DDD	4.21	4.0	ug/kg	5.0	84.3	60-140	11.5	40		
4,4'-DDE	4.12	4.0	ug/kg	5.0	82.4	60-140	8.55	40		
4,4'-DDT	4.66	4.0	ug/kg	5.0	93.1	60-140	1.32	40		
Aldrin	3.49	2.0	ug/kg	5.0	69.8	60-140	5.55	40		
beta-BHC	5.25	2.0	ug/kg	5.0	105	60-140	8.43	40		
delta-BHC	4.06	2.0	ug/kg	5.0	81.1	60-140	7.94	40		
alpha-BHC	3.17	2.0	ug/kg	5.0	63.5	60-140	14.6	40		
gamma-BHC (Lindane)	3.54	4.0	ug/kg	5.0	70.8	60-140	10.7	40		
gamma-Chlordane	3.99	4.0	ug/kg	5.0	79.7	60-140	6.96	40		
alpha-Chlordane	4.06	4.0	ug/kg	5.0	81.3	60-140	7.35	40		
Dieldrin	3.69	2.0	ug/kg	5.0	73.8	60-140	7.27	40		
Endosulfan I	3.91	2.0	ug/kg	5.0	78.3	60-140	7.10	40		
Endosulfan II	4.30	4.0	ug/kg	5.0	86.1	60-140	10.0	40		
Endosulfan sulfate	5.03	4.0	ug/kg	5.0	101	60-140	10.8	40		



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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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### Organochlorine Pesticides by GC EPA 8081A - Quality Control

Batch B8H1001 - EPA 3550B

#### LCS Dup (B8H1001-BSD1) Continued

Prepared & Analyzed: 08/10/18

Endrin	4.18	4.0	ug/kg	5.0	83.6	60-140	6.82	40
Endrin aldehyde	4.07	4.0	ug/kg	5.0	81.3	60-140	24.1	40
Endrin ketone	4.12	4.0	ug/kg	5.0	82.4	60-140	12.8	40
Heptachlor	3.57	2.0	ug/kg	5.0	71.5	60-140	12.3	40
Heptachlor epoxide	3.80	2.0	ug/kg	5.0	76.0	60-140	7.00	40
Methoxychlor	5.11	20	ug/kg	5.0	102	60-140	9.09	40
Surrogate: Decachlorobiphenyl	3.62		ug/kg	5.0	72.4	50-150		
Surrogate: Tetrachloro-meta-xylene	1.98		ug/kg	5.0	39.6	50-150		

### Total Metals CAM 17 - Quality Control

Batch B8H1318 - EPA 3050B

#### Blank (B8H1318-BLK1)

Prepared: 08/13/18 Analyzed: 08/15/18

Antimony	<10	10	mg/kg
Arsenic	<0.50	0.50	mg/kg
Barium	<10	10	mg/kg
Beryllium	<1.0	1.0	mg/kg
Cadmium	<1.0	1.0	mg/kg
Chromium	<3.0	3.0	mg/kg
Cobalt	<3.0	3.0	mg/kg
Copper	<3.0	3.0	mg/kg
Lead	<3.0	3.0	mg/kg
Molybdenum	<5.0	5.0	mg/kg
Nickel	<3.0	3.0	mg/kg
Selenium	<0.50	0.50	mg/kg
Silver	<1.0	1.0	mg/kg
Thallium	<5.0	5.0	mg/kg
Vanadium	<10	10	mg/kg
Zinc	<3.0	3.0	mg/kg

#### LCS (B8H1318-BS1)

Prepared: 08/13/18 Analyzed: 08/15/18

Antimony	58.7	10	mg/kg	50	117	80-120
Arsenic	49.5	0.50	mg/kg	50	99.0	80-120

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## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
<b>Total Metals CAM 17 - Quality Control</b>									
<i>Batch B8H1318 - EPA 3050B</i>									
<b>LCS (B8H1318-BS1) Continued</b>									
Barium	47.6	10	mg/kg	50	95.2	80-120			
Beryllium	53.0	1.0	mg/kg	50	106	80-120			
Cadmium	51.3	1.0	mg/kg	50	103	80-120			
Chromium	48.9	3.0	mg/kg	50	97.8	80-120			
Cobalt	50.0	3.0	mg/kg	50	100	80-120			
Copper	47.2	3.0	mg/kg	50	94.5	80-120			
Lead	49.5	3.0	mg/kg	50	99.0	80-120			
Molybdenum	51.7	5.0	mg/kg	50	103	80-120			
Nickel	49.5	3.0	mg/kg	50	99.0	80-120			
Selenium	48.5	0.50	mg/kg	50	97.1	80-120			
Silver	47.9	1.0	mg/kg	50	95.8	80-120			
Thallium	49.5	5.0	mg/kg	50	98.9	80-120			
Vanadium	49.5	10	mg/kg	50	99.1	80-120			
Zinc	55.3	3.0	mg/kg	50	111	80-120			
<b>LCS Dup (B8H1318-BSD1)</b>									
Antimony	54.8	10	mg/kg	50	110	80-120	7.01	20	
Arsenic	46.5	0.50	mg/kg	50	93.1	80-120	6.19	20	
Barium	44.3	10	mg/kg	50	88.6	80-120	7.14	20	
Beryllium	49.3	1.0	mg/kg	50	98.5	80-120	7.22	20	
Cadmium	47.9	1.0	mg/kg	50	95.7	80-120	6.98	20	
Chromium	45.6	3.0	mg/kg	50	91.1	80-120	7.01	20	
Cobalt	46.8	3.0	mg/kg	50	93.5	80-120	6.72	20	
Copper	44.2	3.0	mg/kg	50	88.5	80-120	6.60	20	
Lead	45.5	3.0	mg/kg	50	91.0	80-120	8.51	20	
Molybdenum	47.6	5.0	mg/kg	50	95.2	80-120	8.30	20	
Nickel	46.7	3.0	mg/kg	50	93.4	80-120	5.74	20	
Selenium	45.4	0.50	mg/kg	50	90.8	80-120	6.69	20	
Silver	44.4	1.0	mg/kg	50	88.9	80-120	7.51	20	
Thallium	47.8	5.0	mg/kg	50	95.5	80-120	3.52	20	
Vanadium	46.2	10	mg/kg	50	92.3	80-120	7.06	20	
Zinc	51.9	3.0	mg/kg	50	104	80-120	6.23	20	

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	Limit Notes
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**Total Metals CAM 17 - Quality Control***Batch B8H1318 - EPA 3050B***Duplicate (B8H1318-DUP1)**

	Source: 8H08021-18			Prepared: 08/13/18			Analyzed: 08/15/18		
Antimony	<10	10	mg/kg		<10				40
Arsenic	0.550	0.50	mg/kg		<0.50				40
Barium	89.4	10	mg/kg		73.3			19.8	40
Beryllium	<1.0	1.0	mg/kg		<1.0				40
Cadmium	<1.0	1.0	mg/kg		<1.0				40
Chromium	6.70	3.0	mg/kg		6.75			0.743	40
Cobalt	5.73	3.0	mg/kg		3.76			41.5	40
Copper	<3.0	3.0	mg/kg		<3.0				40
Lead	<3.0	3.0	mg/kg		<3.0				40
Molybdenum	<5.0	5.0	mg/kg		<5.0				40
Nickel	3.40	3.0	mg/kg		3.25			4.51	40
Selenium	<0.50	0.50	mg/kg		<0.50				40
Silver	<1.0	1.0	mg/kg		<1.0				40
Thallium	<5.0	5.0	mg/kg		<5.0				40
Vanadium	20.2	10	mg/kg		19.0			6.16	40
Zinc	15.1	3.0	mg/kg		14.7			2.82	40

**Matrix Spike (B8H1318-MS1)**

	Source: 8H08021-09			Prepared: 08/13/18			Analyzed: 08/15/18		
Antimony	9.19	10	mg/kg	50	<10	18.4	75-125		QM-07
Arsenic	43.4	0.50	mg/kg	50	0.780	85.3	75-125		
Barium	197	10	mg/kg	50	144	106	75-125		
Beryllium	46.9	1.0	mg/kg	50	<1.0	93.9	75-125		
Cadmium	33.3	1.0	mg/kg	50	<1.0	66.6	75-125		QM-07
Chromium	59.8	3.0	mg/kg	50	14.0	91.6	75-125		
Cobalt	49.9	3.0	mg/kg	50	7.11	85.6	75-125		
Copper	55.9	3.0	mg/kg	50	<3.0	112	75-125		
Lead	46.2	3.0	mg/kg	50	3.45	85.6	75-125		
Molybdenum	43.9	5.0	mg/kg	50	<5.0	87.9	75-125		
Nickel	47.6	3.0	mg/kg	50	6.77	81.8	75-125		
Selenium	32.7	0.50	mg/kg	50	<0.50	65.5	75-125		QM-07
Silver	48.6	1.0	mg/kg	50	<1.0	97.2	75-125		
Thallium	38.8	5.0	mg/kg	50	<5.0	77.7	60-140		

**Viorel Vasile**  
Operations Manager

LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	Limit Notes
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**Total Metals CAM 17 - Quality Control**

Batch B8H1318 - EPA 3050B

**Matrix Spike (B8H1318-MS1) Continued** Source: 8H08021-09 Prepared: 08/13/18 Analyzed: 08/15/18

Vanadium	86.6	10	mg/kg	50	36.7	99.8	75-125		
Zinc	77.7	3.0	mg/kg	50	30.6	94.2	75-125		

**Matrix Spike Dup (B8H1318-MSD1)** Source: 8H08021-09 Prepared: 08/13/18 Analyzed: 08/15/18

Antimony	10.3	10	mg/kg	50	<10	20.6	75-125	11.3	40	QM-07
Arsenic	44.7	0.50	mg/kg	50	0.780	87.9	75-125	2.88	40	
Barium	200	10	mg/kg	50	144	112	75-125	1.46	40	
Beryllium	47.4	1.0	mg/kg	50	<1.0	94.8	75-125	1.02	40	
Cadmium	33.9	1.0	mg/kg	50	<1.0	67.8	75-125	1.70	40	QM-07
Chromium	60.3	3.0	mg/kg	50	14.0	92.7	75-125	0.916	40	
Cobalt	50.4	3.0	mg/kg	50	7.11	86.5	75-125	0.977	40	
Copper	56.5	3.0	mg/kg	50	<3.0	113	75-125	1.07	40	
Lead	46.1	3.0	mg/kg	50	3.45	85.3	75-125	0.260	40	
Molybdenum	44.8	5.0	mg/kg	50	<5.0	89.6	75-125	1.94	40	
Nickel	48.3	3.0	mg/kg	50	6.77	83.1	75-125	1.40	40	
Selenium	33.6	0.50	mg/kg	50	<0.50	67.2	75-125	2.68	40	QM-07
Silver	49.8	1.0	mg/kg	50	<1.0	99.5	75-125	2.32	40	
Thallium	40.8	5.0	mg/kg	50	<5.0	81.5	60-140	4.83	40	
Vanadium	86.4	10	mg/kg	50	36.7	99.3	75-125	0.312	40	
Zinc	78.0	3.0	mg/kg	50	30.6	94.7	75-125	0.308	40	

**Total Metals CAM 17 - Quality Control**

Batch B8H1414 - EPA 7471A Prep

**Blank (B8H1414-BLK1)** Prepared & Analyzed: 08/14/18

Mercury	<0.020	0.020	mg/kg
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**LCS (B8H1414-BS1)** Prepared & Analyzed: 08/14/18

Mercury	0.493	0.020	mg/kg	0.50	98.6	80-120
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**LCS Dup (B8H1414-BSD1)** Prepared & Analyzed: 08/14/18

Mercury	0.491	0.020	mg/kg	0.50	98.2	80-120	0.407	25
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**Duplicate (B8H1414-DUP1)** Source: 8H08021-18 Prepared & Analyzed: 08/14/18

Mercury	<0.020	0.020	mg/kg	<0.020				25
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**Matrix Spike (B8H1414-MS1)** Source: 8H08021-09 Prepared & Analyzed: 08/14/18

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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### Total Metals CAM 17 - Quality Control

Batch B8H1414 - EPA 7471A Prep

**Matrix Spike (B8H1414-MS1) Continued** Source: 8H08021-09 Prepared & Analyzed: 08/14/18

Mercury	0.500	0.020	mg/kg	0.50	<0.020	100	75-125
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**Matrix Spike Dup (B8H1414-MSD1)** Source: 8H08021-09 Prepared & Analyzed: 08/14/18

Mercury	0.502	0.020	mg/kg	0.50	<0.020	100	75-125	0.399	25
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Viorel Vasile  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (PH)  
**Project No:** 013  
**Project Name:** Duke - Perris 093

**AA Project No:** A596169  
**Date Received:** 08/08/18  
**Date Reported:** 08/20/18

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### Special Notes

- [1] = AA-C1 : Exceeds RPD limit.
- [2] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- [3] = S-GC : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

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Viorel Vasile  
Operations Manager



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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### Ordered By

**American Analytics**  
**9765 Eton Avenue**  
**Chatsworth, CA 91311-4306**

**Number of Pages 15**  
**Date Received 08/09/2018**  
**Date Reported 08/16/2018**

**Telephone:** (818)998-5547  
**Attention:** Viorel Vasile

Job Number	Order Date	Client
93581	08/09/2018	AA

**Project ID:** A596169/8H08021  
**Project Name:** PO# SUB03613-A596169

Enclosed please find results of analyses of 18 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:

Approved By:

Cyrus Razmara, Ph.D.  
Laboratory Director

AETL



## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

70052220  
Page 1 of 2

A.A. COC No.:

Client: <b>AMERICAN ANALYTICS</b>	Project Name / No.: <b>A596169/8+08021</b>	Sampler's Name: <b>93581</b>
Project Manager: <b>Marc Joule</b>	Site Address: <b></b>	P.O. No.: <b>SUB03613-A596169</b>
Phone: <b></b>	City: <b></b>	Quote No.: <b></b>
Fax: <b></b>	State & Zip: <b></b>	

## TAT Turnaround Codes \*\*

- ①** = Same Day Rush
- ④** = 72 Hour Rush
- ②** = 24 Hour Rush
- ⑤** = 5 Day Rush
- ③** = 48 Hour Rush
- X** = 10 Working Days (Standard TAT)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)		Special Instructions
						Please enter the TAT Turnaround Codes ** below		
8408021-01	93581-01	8/18/18	8:45	Sal	1	X	X	
02	93581-02	849				X	X	
03	93581-03	9:00				X	X	
04	93581-04	9:22				X	X	
05	93581-05	9:32				X	X	
06	93581-06	9:42				X	X	
07	93581-07	10:01				X	X	
08	93581-08	10:11				X	X	
09	93581-09	10:41				X	X	
-10	93581-10	10:40				X	X	
-11	93581-11	10:49				X	X	
-12	93581-12	10:58				X	X	
-13	93581-13	11:49				X	X	
-14	93581-14	11:54				X	X	
-15	93581-15	13:40				X	X	
<b>For Laboratory Use</b>						<b>J. Umbrun</b>	<b>08/09/18</b>	<b>Received by</b>
Relinquished by								
Relinquished by								
Relinquished by								

A.A. Project No.:

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project.  
 Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.





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### COOLER RECEIPT FORM

Client Name:	American Analy.			
Project Name:				
AETL Job Number:	93581			
Date Received:	8/09/18	Received by:	Art	
Carrier:	<input type="checkbox"/> AETL Courier	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> GSO	<input type="checkbox"/> FedEx
	<input type="checkbox"/> UPS	<input type="checkbox"/> Others:		
Samples were received in:	<input checked="" type="checkbox"/> Cooler ( / ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container	No 1: 3.9, No 2: , No 3:			
Type of sample containers:	<input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved:	<input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice None, HNO <sub>3</sub> , NaOH, ZnOAc, HCl, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , MeOH Other (Specify):			
	Yes	No, explain below	Name, if client was notified	
1. Are the COCs Correct?	✓			
2. Are the Sample labels legible?	✓			
3. Do samples match the COC?	✓			
4. Are the required analyses clear?	✓			
5. Is there enough samples for required analysis?	✓			
6. Are samples sealed with evidence tape?	✓			
7. Are sample containers in good condition?	✓			
8. Are samples preserved?	✓			
9. Are samples preserved properly for the intended analysis?	✓			
10. Are the VOAs free of headspace?	✓			
11. Are the jars free of headspace?	✓			

Explain all "No" answers for above questions:

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Page: 1 A

## Ordered By

American Analytics  
9765 Eton Avenue  
Chatsworth, CA 91311-4306

Project ID: A596169/8H08021  
Date Received 08/09/2018  
Date Reported 08/16/2018

Telephone: (818) 998-5547

Attention: Viorel Vasile

Job Number	Order Date	Client
93581	08/09/2018	AA

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 18 samples with the following specification on 08/09/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93581.01	8H08021-01	08/07/2018	Soil	1
93581.02	8H08021-02	08/07/2018	Soil	1
93581.03	8H08021-03	08/07/2018	Soil	1
93581.04	8H08021-04	08/07/2018	Soil	1
93581.05	8H08021-05	08/07/2018	Soil	1
93581.06	8H08021-06	08/07/2018	Soil	1
93581.07	8H08021-07	08/07/2018	Soil	1
93581.08	8H08021-08	08/07/2018	Soil	1
93581.09	8H08021-09	08/07/2018	Soil	1
93581.10	8H08021-10	08/07/2018	Soil	1
93581.11	8H08021-11	08/07/2018	Soil	1
93581.12	8H08021-12	08/07/2018	Soil	1
93581.13	8H08021-13	08/07/2018	Soil	1
93581.14	8H08021-14	08/07/2018	Soil	1
93581.15	8H08021-15	08/07/2018	Soil	1
93581.16	8H08021-16	08/07/2018	Soil	1
93581.17	8H08021-17	08/07/2018	Soil	1
93581.18	8H08021-18	08/07/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8141A)	08/16/2018	2	Normal	ug/Kg
(8151A)	08/16/2018	2	Normal	ug/Kg

Continued



# American Environmental Testing Laboratory Inc.

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**Page: 1 B**

**Ordered By**

**American Analytics  
9765 Eton Avenue  
Chatsworth, CA 91311-4306**

**Project ID: A596169/8H08021  
Date Received 08/09/2018  
Date Reported 08/16/2018**

**Telephone: (818) 998-5547**

**Attention: Viorel Vasile**

<b>Job Number</b>	<b>Order Date</b>	<b>Client</b>
93581	08/09/2018	AA

## **CERTIFICATE OF ANALYSIS CASE NARRATIVE**

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: \_\_\_\_\_

A handwritten signature in black ink, appearing to read "C. Razmara".

Approved By: \_\_\_\_\_

A handwritten signature in blue ink, appearing to read "C. Razmara".

Cyrus Razmara, Ph.D.  
Laboratory Director



## American Environmental Testing Laboratory Inc.

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### ANALYTICAL RESULTS

#### Ordered By

American Analytics  
9765 Eton Avenue  
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 2

Project ID: A596169/8H08021

Project Name: PO# SUB03613-A596169

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

QC Batch No: 0810181B1

Our Lab I.D.		Method Blank	93581.01	93581.02	93581.03	93581.04
Client Sample I.D.			8H08021-01	8H08021-02	8H08021-03	8H08021-04
Date Sampled			08/07/2018	08/07/2018	08/07/2018	08/07/2018
Date Prepared		08/10/2018	08/10/2018	08/10/2018	08/10/2018	08/10/2018
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		08/14/2018	08/14/2018	08/14/2018	08/14/2018	08/14/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Azinphos-methyl	50	50	ND	ND	ND	ND
Bolstar (Sulprofos)	50	50	ND	ND	ND	ND
Chloropyrifos (Dursban)	50	50	ND	ND	ND	ND
Coumaphos	50	50	ND	ND	ND	ND
Demeton-O & S	50	50	ND	ND	ND	ND
Diazinon	50	50	ND	ND	ND	ND
Dichlorvos (DDVP, Diclorovos)	50	50	ND	ND	ND	ND
Disulfoton	50	50	ND	ND	ND	ND
Ethoprop	50	50	ND	ND	ND	ND
Fensulfothion	50	50	ND	ND	ND	ND
Fenthion	50	50	ND	ND	ND	ND
Malathion	50	50	ND	ND	ND	ND
Merphos	50	50	ND	ND	ND	ND
Methyl parathion (Parathion methyl)	50	50	ND	ND	ND	ND
Mevinphos	100	100	ND	ND	ND	ND
Naled	100	100	ND	ND	ND	ND
Phorate (Phosphorodithioic acid)	50	50	ND	ND	ND	ND
Ronnel	50	50	ND	ND	ND	ND
Tetrachlorvinphos (Stirophos)	50	50	ND	ND	ND	ND
Tokuthion (Prothifofos)	50	50	ND	ND	ND	ND
Trichloronate	50	50	ND	ND	ND	ND



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### ANALYTICAL RESULTS

Page: **3**

Project ID: **A596169/8H08021**  
Project Name: **PO# SUB03613-A596169**

<b>AETL Job Number</b>	<b>Submitted</b>	<b>Client</b>
<b>93581</b>	<b>08/09/2018</b>	<b>AA</b>

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

<b>Our Lab I.D.</b>			Method Blank	<b>93581.01</b>	<b>93581.02</b>	<b>93581.03</b>	<b>93581.04</b>
<b>Surrogates</b>	<b>%Rec.Limit</b>			<b>% Rec.</b>	<b>% Rec.</b>	<b>% Rec.</b>	<b>% Rec.</b>
Tributylphosphate	<b>52-129</b>			<b>53.6</b>	<b>66.4</b>	<b>58.8</b>	<b>56.0</b>



## American Environmental Testing Laboratory Inc.

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### ANALYTICAL RESULTS

#### Ordered By

American Analytics  
9765 Eton Avenue  
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: 4

Project ID: A596169/8H08021

Project Name: PO# SUB03613-A596169

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

QC Batch No: 0810181B1

Our Lab I.D.		93581.05	93581.06	93581.07	93581.08	93581.09
Client Sample I.D.		8H08021-05	8H08021-06	8H08021-07	8H08021-08	8H08021-09
Date Sampled		08/07/2018	08/07/2018	08/07/2018	08/07/2018	08/07/2018
Date Prepared		08/10/2018	08/10/2018	08/10/2018	08/10/2018	08/10/2018
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		08/14/2018	08/14/2018	08/14/2018	08/14/2018	08/14/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Azinphos-methyl	50	50	ND	ND	ND	ND
Bolstar (Sulprofos)	50	50	ND	ND	ND	ND
Chloropyrifos (Dursban)	50	50	ND	ND	ND	ND
Coumaphos	50	50	ND	ND	ND	ND
Demeton-O & S	50	50	ND	ND	ND	ND
Diazinon	50	50	ND	ND	ND	ND
Dichlorvos (DDVP, Diclorovos)	50	50	ND	ND	ND	ND
Disulfoton	50	50	ND	ND	ND	ND
Ethoprop	50	50	ND	ND	ND	ND
Fensulfothion	50	50	ND	ND	ND	ND
Fenthion	50	50	ND	ND	ND	ND
Malathion	50	50	ND	ND	ND	ND
Merphos	50	50	ND	ND	ND	ND
Methyl parathion (Parathion methyl)	50	50	ND	ND	ND	ND
Mevinphos	100	100	ND	ND	ND	ND
Naled	100	100	ND	ND	ND	ND
Phorate (Phosphorodithioic acid)	50	50	ND	ND	ND	ND
Ronnel	50	50	ND	ND	ND	ND
Tetrachlorvinphos (Stirophos)	50	50	ND	ND	ND	ND
Tokuthion (Prothifofos)	50	50	ND	ND	ND	ND
Trichloronate	50	50	ND	ND	ND	ND



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### ANALYTICAL RESULTS

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Project ID: **A596169/8H08021**  
Project Name: **PO# SUB03613-A596169**

<b>AETL Job Number</b>	<b>Submitted</b>	<b>Client</b>
<b>93581</b>	<b>08/09/2018</b>	<b>AA</b>

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

<b>Our Lab I.D.</b>	<b>%Rec.Limit</b>	<b>% Rec.</b>				
Tributylphosphate	<b>52-129</b>	<b>63.6</b>	<b>56.0</b>	<b>62.0</b>	<b>65.6</b>	<b>65.2</b>



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9765 Eton Avenue  
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

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Project ID: A596169/8H08021

Project Name: PO# SUB03613-A596169

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

QC Batch No: 0810181B1

Our Lab I.D.		93581.10	93581.11	93581.12	93581.13	93581.14
Client Sample I.D.		8H08021-10	8H08021-11	8H08021-12	8H08021-13	8H08021-14
Date Sampled		08/07/2018	08/07/2018	08/07/2018	08/07/2018	08/07/2018
Date Prepared		08/10/2018	08/10/2018	08/10/2018	08/10/2018	08/10/2018
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		08/14/2018	08/14/2018	08/15/2018	08/15/2018	08/15/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Azinphos-methyl	50	50	ND	ND	ND	ND
Bolstar (Sulprofos)	50	50	ND	ND	ND	ND
Chloropyrifos (Dursban)	50	50	ND	ND	ND	ND
Coumaphos	50	50	ND	ND	ND	ND
Demeton-O & S	50	50	ND	ND	ND	ND
Diazinon	50	50	ND	ND	ND	ND
Dichlorvos (DDVP, Diclorovos)	50	50	ND	ND	ND	ND
Disulfoton	50	50	ND	ND	ND	ND
Ethoprop	50	50	ND	ND	ND	ND
Fensulfothion	50	50	ND	ND	ND	ND
Fenthion	50	50	ND	ND	ND	ND
Malathion	50	50	ND	ND	ND	ND
Merphos	50	50	ND	ND	ND	ND
Methyl parathion (Parathion methyl)	50	50	ND	ND	ND	ND
Mevinphos	100	100	ND	ND	ND	ND
Naled	100	100	ND	ND	ND	ND
Phorate (Phosphorodithioic acid)	50	50	ND	ND	ND	ND
Ronnel	50	50	ND	ND	ND	ND
Tetrachlorvinphos (Stirophos)	50	50	ND	ND	ND	ND
Tokuthion (Prothifofos)	50	50	ND	ND	ND	ND
Trichloronate	50	50	ND	ND	ND	ND



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### ANALYTICAL RESULTS

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Project ID: **A596169/8H08021**  
Project Name: **PO# SUB03613-A596169**

<b>AETL Job Number</b>	<b>Submitted</b>	<b>Client</b>
<b>93581</b>	<b>08/09/2018</b>	<b>AA</b>

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

<b>Our Lab I.D.</b>	<b>%Rec.Limit</b>	<b>% Rec.</b>				
Tributylphosphate	<b>52-129</b>	<b>68.8</b>	<b>60.0</b>	<b>64.4</b>	<b>54.4</b>	<b>62.0</b>



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Attn: Viorel Vasile

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Project ID: A596169/8H08021

Project Name: PO# SUB03613-A596169

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

QC Batch No: 0810181B1

Our Lab I.D.		93581.15	93581.16	93581.17	93581.18	
Client Sample I.D.		8H08021-15	8H08021-16	8H08021-17	8H08021-18	
Date Sampled		08/07/2018	08/07/2018	08/07/2018	08/07/2018	
Date Prepared		08/10/2018	08/10/2018	08/10/2018	08/10/2018	
Preparation Method		3550B	3550B	3550B	3550B	
Date Analyzed		08/15/2018	08/15/2018	08/15/2018	08/15/2018	
Matrix		Soil	Soil	Soil	Soil	
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor		1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results
Azinphos-methyl	50	50	ND	ND	ND	ND
Bolstar (Sulprofos)	50	50	ND	ND	ND	ND
Chloropyrifos (Dursban)	50	50	ND	ND	ND	ND
Coumaphos	50	50	ND	ND	ND	ND
Demeton-O & S	50	50	ND	ND	ND	ND
Diazinon	50	50	ND	ND	ND	ND
Dichlorvos (DDVP, Diclorovos)	50	50	ND	ND	ND	ND
Disulfoton	50	50	ND	ND	ND	ND
Ethoprop	50	50	ND	ND	ND	ND
Fensulfothion	50	50	ND	ND	ND	ND
Fenthion	50	50	ND	ND	ND	ND
Malathion	50	50	ND	ND	ND	ND
Merphos	50	50	ND	ND	ND	ND
Methyl parathion (Parathion methyl)	50	50	ND	ND	ND	ND
Mevinphos	100	100	ND	ND	ND	ND
Naled	100	100	ND	ND	ND	ND
Phorate (Phosphorodithioic acid)	50	50	ND	ND	ND	ND
Ronnel	50	50	ND	ND	ND	ND
Tetrachlorvinphos (Stirophos)	50	50	ND	ND	ND	ND
Tokuthion (Prothifofos)	50	50	ND	ND	ND	ND
Trichloronate	50	50	ND	ND	ND	ND



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### ANALYTICAL RESULTS

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Project ID: **A596169/8H08021**  
Project Name: **PO# SUB03613-A596169**

<b>AETL Job Number</b>	<b>Submitted</b>	<b>Client</b>
<b>93581</b>	<b>08/09/2018</b>	<b>AA</b>

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

<b>Our Lab I.D.</b>			<b>93581.15</b>	<b>93581.16</b>	<b>93581.17</b>	<b>93581.18</b>	
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>	<b>% Rec.</b>	<b>% Rec.</b>	
Tributylphosphate	<b>52-129</b>		<b>62.4</b>	<b>68.0</b>	<b>55.6</b>	<b>60.0</b>	



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Project ID: **A596169/8H08021**

Project Name: **PO# SUB03613-A596169**

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081318MB1

Our Lab I.D.		Method Blank	93581.01	93581.02	93581.03	93581.04
Client Sample I.D.			8H08021-01	8H08021-02	8H08021-03	8H08021-04
Date Sampled			08/07/2018	08/07/2018	08/07/2018	08/07/2018
Date Prepared		08/13/2018	08/13/2018	08/13/2018	08/13/2018	08/13/2018
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		08/14/2018	08/14/2018	08/14/2018	08/14/2018	08/14/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Acifluorfen	20	20	ND	ND	ND	ND
Bentazon	10	10	ND	ND	ND	ND
Chloramben	10	10	ND	ND	ND	ND
2,4-D	10	10	ND	ND	ND	ND
Dalapon	20	20	ND	ND	ND	ND
2,4-DB	10	10	ND	ND	ND	ND
DCPA diacid	20	20	ND	ND	ND	ND
Dicamba	10	10	ND	ND	ND	ND
3,5-Dichlorobenzoic acid	10	10	ND	ND	ND	ND
Dichloroprop	10	10	ND	ND	ND	ND
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND	ND	ND	ND
MCPCA	2000	2000	ND	ND	ND	ND
MCPP	2000	2000	ND	ND	ND	ND
4-Nitrophenol	10	10	ND	ND	ND	ND
Pentachlorophenol (PCP)	10	10	ND	ND	ND	ND
Picloram	10	10	ND	ND	ND	ND
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND	ND	ND	ND
2,4,5-TP	10	10	ND	ND	ND	ND
Our Lab I.D.		Method Blank	93581.01	93581.02	93581.03	93581.04
Surrogates	% Rec. Limit		% Rec.	% Rec.	% Rec.	% Rec.
DCAA	40-150		44.2	40.2	46.2	42.6
						53.0



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Project ID: **A596169/8H08021**

Project Name: **PO# SUB03613-A596169**

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081318MB1

Our Lab I.D.		93581.05	93581.06	93581.07	93581.08	93581.09
Client Sample I.D.		8H08021-05	8H08021-06	8H08021-07	8H08021-08	8H08021-09
Date Sampled		08/07/2018	08/07/2018	08/07/2018	08/07/2018	08/07/2018
Date Prepared		08/13/2018	08/13/2018	08/13/2018	08/13/2018	08/13/2018
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		08/14/2018	08/14/2018	08/14/2018	08/14/2018	08/14/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Acifluorfen	20	20	ND	ND	ND	ND
Bentazon	10	10	ND	ND	ND	ND
Chloramben	10	10	ND	ND	ND	ND
2,4-D	10	10	ND	ND	ND	ND
Dalapon	20	20	ND	ND	ND	ND
2,4-DB	10	10	ND	ND	ND	ND
DCPA diacid	20	20	ND	ND	ND	ND
Dicamba	10	10	ND	ND	ND	ND
3,5-Dichlorobenzoic acid	10	10	ND	ND	ND	ND
Dichloroprop	10	10	ND	ND	ND	ND
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND	ND	ND	ND
MCPCA	2000	2000	ND	ND	ND	ND
MCPP	2000	2000	ND	ND	ND	ND
4-Nitrophenol	10	10	ND	ND	ND	ND
Pentachlorophenol (PCP)	10	10	ND	ND	ND	ND
Picloram	10	10	ND	ND	ND	ND
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND	ND	ND	ND
2,4,5-TP	10	10	ND	ND	ND	ND
Our Lab I.D.		93581.05	93581.06	93581.07	93581.08	93581.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
DCAA	40-150		49.8	45.8	47.4	41.6
						41.8



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Project ID: **A596169/8H08021**

Project Name: **PO# SUB03613-A596169**

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081318MB1

Our Lab I.D.		93581.10	93581.11	93581.12	93581.13	93581.14
Client Sample I.D.		8H08021-10	8H08021-11	8H08021-12	8H08021-13	8H08021-14
Date Sampled		08/07/2018	08/07/2018	08/07/2018	08/07/2018	08/07/2018
Date Prepared		08/13/2018	08/13/2018	08/13/2018	08/13/2018	08/13/2018
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		08/14/2018	08/14/2018	08/14/2018	08/14/2018	08/14/2018
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Acifluorfen	20	20	ND	ND	ND	ND
Bentazon	10	10	ND	ND	ND	ND
Chloramben	10	10	ND	ND	ND	ND
2,4-D	10	10	ND	ND	ND	ND
Dalapon	20	20	ND	ND	ND	ND
2,4-DB	10	10	ND	ND	ND	ND
DCPA diacid	20	20	ND	ND	ND	ND
Dicamba	10	10	ND	ND	ND	ND
3,5-Dichlorobenzoic acid	10	10	ND	ND	ND	ND
Dichloroprop	10	10	ND	ND	ND	ND
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND	ND	ND	ND
MCPA	2000	2000	ND	ND	ND	ND
MCPP	2000	2000	ND	ND	ND	ND
4-Nitrophenol	10	10	ND	ND	ND	ND
Pentachlorophenol (PCP)	10	10	ND	ND	ND	ND
Picloram	10	10	ND	ND	ND	ND
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND	ND	ND	ND
2,4,5-TP	10	10	ND	ND	ND	ND
Our Lab I.D.		93581.10	93581.11	93581.12	93581.13	93581.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
DCAA	40-150		45.4	48.4	45.8	47.4
						43.2



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Project ID: **A596169/8H08021**

Project Name: **PO# SUB03613-A596169**

<b>AETL Job Number</b>	<b>Submitted</b>	<b>Client</b>
<b>93581</b>	<b>08/09/2018</b>	<b>AA</b>

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081318MB1

<b>Our Lab I.D.</b>			<b>93581.15</b>	<b>93581.16</b>	<b>93581.17</b>	<b>93581.18</b>	
Client Sample I.D.			8H08021-15	8H08021-16	8H08021-17	8H08021-18	
Date Sampled			<b>08/07/2018</b>	<b>08/07/2018</b>	<b>08/07/2018</b>	<b>08/07/2018</b>	
Date Prepared			<b>08/13/2018</b>	<b>08/13/2018</b>	<b>08/13/2018</b>	<b>08/13/2018</b>	
Preparation Method			<b>3550B</b>	<b>3550B</b>	<b>3550B</b>	<b>3550B</b>	
Date Analyzed			<b>08/14/2018</b>	<b>08/14/2018</b>	<b>08/14/2018</b>	<b>08/14/2018</b>	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
<b>Analytics</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	
Acifluorfen	<b>20</b>	<b>20</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Bentazon	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Chloramben	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
2,4-D	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Dalapon	<b>20</b>	<b>20</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
2,4-DB	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
DCPA diacid	<b>20</b>	<b>20</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Dicamba	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
3,5-Dichlorobenzoic acid	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Dichloroprop	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	<b>20</b>	<b>20</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
MCPA	<b>2000</b>	<b>2000</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
MCPP	<b>2000</b>	<b>2000</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
4-Nitrophenol	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Pentachlorophenol (PCP)	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
Picloram	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
2,4,5-TP	<b>10</b>	<b>10</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
<b>Our Lab I.D.</b>			<b>93581.15</b>	<b>93581.16</b>	<b>93581.17</b>	<b>93581.18</b>	
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>	<b>% Rec.</b>	<b>% Rec.</b>	
DCAA	<b>40-150</b>		<b>59.8</b>	<b>47.8</b>	<b>50.0</b>	<b>66.0</b>	



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### QUALITY CONTROL RESULTS

#### Ordered By

American Analytics  
9765 Eton Avenue  
Chatsworth, CA 91311-4306

Telephone: (818)998-5547

Attn: Viorel Vasile

Page: **14**

Project ID: **A596169/8H08021**

Project Name: **PO# SUB03613-A596169**

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8141A), Organophosphorus Compounds by GC/NPD/FPD

QC Batch No: 0810181B1; Dup or Spiked Sample: 93581.02; LCS: Clean Sand; QC Prepared: 08/10/2018; QC Analyzed: 08/14/2018;

Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Bolstar (Sulprofos)	<b>0.00</b>	<b>200</b>	<b>202</b>	<b>101</b>	<b>200</b>	<b>226</b>	<b>113</b>	<b>11.2</b>	<b>50-150</b>	<b>&lt;40</b>
Ethoprop	<b>0.00</b>	<b>200</b>	<b>216</b>	<b>108</b>	<b>200</b>	<b>228</b>	<b>114</b>	<b>5.4</b>	<b>50-150</b>	<b>&lt;40</b>
Phorate (Phosphorodithioic acid)	<b>0.00</b>	<b>200</b>	<b>167</b>	<b>83.5</b>	<b>200</b>	<b>143</b>	<b>71.5</b>	<b>15.5</b>	<b>50-150</b>	<b>&lt;40</b>
Ronnel	<b>0.00</b>	<b>200</b>	<b>191</b>	<b>95.5</b>	<b>200</b>	<b>197</b>	<b>98.5</b>	<b>3.1</b>	<b>50-150</b>	<b>&lt;40</b>
<b>Surrogates</b>										
Tributylphosphate	<b>0.00</b>	<b>250</b>	<b>135</b>	<b>54.0</b>	<b>250</b>	<b>151</b>	<b>60.4</b>	<b>11.2</b>	<b>50-150</b>	<b>&lt;40</b>

QC Batch No: 0810181B1; Dup or Spiked Sample: 93581.02; LCS: Clean Sand; QC Prepared: 08/10/2018; QC Analyzed: 08/14/2018;

Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Bolstar (Sulprofos)	<b>200</b>	<b>212</b>	<b>106</b>	<b>200</b>	<b>218</b>	<b>109</b>	<b>2.8</b>	<b>50-150</b>	<b>&lt;40</b>
Ethoprop	<b>200</b>	<b>222</b>	<b>111</b>	<b>200</b>	<b>230</b>	<b>115</b>	<b>3.5</b>	<b>50-150</b>	<b>&lt;40</b>
Phorate (Phosphorodithioic acid)	<b>200</b>	<b>169</b>	<b>84.5</b>	<b>200</b>	<b>169</b>	<b>84.5</b>	<b>&lt;1</b>	<b>50-150</b>	<b>&lt;40</b>
Ronnel	<b>200</b>	<b>242</b>	<b>121</b>	<b>200</b>	<b>212</b>	<b>106</b>	<b>13.2</b>	<b>50-150</b>	<b>&lt;40</b>
<b>Surrogates</b>									
Tributylphosphate	<b>250</b>	<b>134</b>	<b>53.6</b>	<b>250</b>	<b>141</b>	<b>56.4</b>	<b>5.1</b>	<b>50-150</b>	<b>&lt;40</b>



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### QUALITY CONTROL RESULTS

#### Ordered By

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Telephone: (818)998-5547

Attn: Viorel Vasile

Page: **15**

Project ID: **A596169/8H08021**

Project Name: **PO# SUB03613-A596169**

AETL Job Number	Submitted	Client
93581	08/09/2018	AA

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081318MB1; Dup or Spiked Sample: 93581.03; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018;

Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
2,4-D	<b>0.00</b>	<b>25.0</b>	<b>11.5</b>	<b>46.0</b>	<b>25.0</b>	<b>10.2</b>	<b>40.8</b>	<b>12.0</b>	<b>40-140</b>	<b>&lt;40</b>
Dinoseb (DNBP, 2-sec-Butyl-4, 6-dinitrophenol)	<b>0.00</b>	<b>25.0</b>	<b>13.4</b>	<b>53.6</b>	<b>25.0</b>	<b>12.3</b>	<b>49.2</b>	<b>8.6</b>	<b>40-140</b>	<b>&lt;40</b>
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	<b>0.00</b>	<b>25.0</b>	<b>14.2</b>	<b>56.8</b>	<b>25.0</b>	<b>13.5</b>	<b>54.0</b>	<b>5.1</b>	<b>40-140</b>	<b>&lt;40</b>
<b>Surrogates</b>										
DCAA	<b>0.00</b>	<b>50.0</b>	<b>22.2</b>	<b>44.4</b>	<b>50.0</b>	<b>22.8</b>	<b>45.6</b>	<b>2.7</b>	<b>40-140</b>	<b>&lt;40</b>

QC Batch No: 081318MB1; Dup or Spiked Sample: 93581.03; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018;

Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
2,4-D	<b>25.0</b>	<b>13.7</b>	<b>54.8</b>	<b>25.0</b>	<b>14.3</b>	<b>57.2</b>	<b>4.3</b>	<b>50-140</b>	<b>&lt;40</b>	
Dinoseb (DNBP, 2-sec-Butyl-4, 6-dinitrophenol)	<b>25.0</b>	<b>18.8</b>	<b>75.2</b>	<b>25.0</b>	<b>19.7</b>	<b>78.8</b>	<b>4.7</b>	<b>50-140</b>	<b>&lt;40</b>	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	<b>25.0</b>	<b>17.0</b>	<b>68.0</b>	<b>25.0</b>	<b>18.4</b>	<b>73.6</b>	<b>7.9</b>	<b>50-140</b>	<b>&lt;40</b>	
<b>LCS</b>										
Dalapon	<b>25.0</b>	<b>18.2</b>	<b>72.8</b>	<b>25.0</b>	<b>20.7</b>	<b>82.8</b>	<b>12.9</b>	<b>50-140</b>	<b>&lt;40</b>	
2,4-DB	<b>25.0</b>	<b>22.9</b>	<b>91.6</b>	<b>25.0</b>	<b>26.0</b>	<b>104</b>	<b>12.7</b>	<b>50-140</b>	<b>&lt;40</b>	
Dicamba	<b>25.0</b>	<b>17.7</b>	<b>70.8</b>	<b>25.0</b>	<b>18.8</b>	<b>75.2</b>	<b>6.0</b>	<b>50-140</b>	<b>&lt;40</b>	
Dichloroprop	<b>25.0</b>	<b>15.1</b>	<b>60.4</b>	<b>25.0</b>	<b>14.0</b>	<b>56.0</b>	<b>7.6</b>	<b>50-140</b>	<b>&lt;40</b>	
MCPA	<b>2,500</b>	<b>2,150</b>	<b>85.8</b>	<b>2,500</b>	<b>1,940</b>	<b>77.4</b>	<b>10.3</b>	<b>50-140</b>	<b>&lt;40</b>	
MCPP	<b>2,500</b>	<b>2,290</b>	<b>91.6</b>	<b>2,500</b>	<b>2,880</b>	<b>115</b>	<b>22.7</b>	<b>50-140</b>	<b>&lt;40</b>	
2,4,5-TP	<b>25.0</b>	<b>19.5</b>	<b>78.0</b>	<b>25.0</b>	<b>19.9</b>	<b>79.6</b>	<b>2.0</b>	<b>50-140</b>	<b>&lt;40</b>	
<b>Surrogates</b>										
DCAA	<b>50.0</b>	<b>26.6</b>	<b>53.2</b>	<b>50.0</b>	<b>26.4</b>	<b>52.8</b>	<b>&lt;1</b>	<b>50-140</b>	<b>&lt;40</b>	



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## Data Qualifiers and Descriptors

### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS: Matrix Spike

MS DU: Matrix Spike Duplicate

ND: Analyte was not detected in the sample at or above MDL.

PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.

Recov: Recovered concentration in the sample.

RPD: Relative Percent Difference



## AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

Client: APIC X  
Project Manager: PAISHTA JORGESEN  
Phone: (025) 044 - 2852Project Name / No.: Dufres-Perris 093-Dufres 013 Sampler's Name: TRAVIS MURRAY  
Site Address: 36 CURRIER W. PERRY ST. OREGON, OR 97021  
City: PERKINS

Fax:

State & Zip: CA  
Quote No.:

## TAT Turnaround Codes \*\*

- ① = Same Day Rush      ④ = 72 Hour Rush
- ② = 24 Hour Rush      ⑤ = 5 Day Rush
- ③ = 48 Hour Rush      X = 10 Working Days (Standard TAT)

## ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont.	Special Instructions				
						Please enter the TAT Turnaround Codes ** below				
SB6-0.5	SH08021-01	8-7-18	8:40	S	2	X	X	X	X	X
SB6-2	-02	8-7-18	8:49		2	X	X	X	X	X
SB6-5	-03	8-7-18	9:00		2	X	X	X	X	X
SB5-0.5	-04	8-7-18	9:22		2	X	X	X	X	X
SB5-2	-05	8-7-18	9:32		2	X	X	X	X	X
SB5-5	-06	8-7-18	9:42		2	X	X	X	X	X
SB4-0.5	-07	8-8-18	10:01		2	X	X	X	X	X
SB4-2	-08	8-8-18	10:11		2	X	X	X	X	X
SB4-5	-09	8-8-18	10:21		2	X	X	X	X	X
SB3-0.5	-10	8-8-18	10:40		2	X	X	X	X	X
SB3-2	-11	8-8-18	10:49		2	X	X	X	X	X
SB3-5	-12	8-8-18	10:58		2	X	X	X	X	X
For Laboratory Use						Relinquished by	Date	Time	Received by	
Date 8/8/18 Time 1700 N. S. SIGN						Travis Murray	8-8-18	1700	J. Umana	
Project No. 75-46187-243821						Relinquished by	Date	Time	Received by	
Date 8-8-18 Time 1500 N. S. SIGN						Corey Stan	8-8-18	1500	Vivian Wu	
Project No. 75-46187-243821						J. Jimenez	Date 8-8-18 Time 1622 N. S. SIGN	1622	Received by	

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project.  
 Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the samples(s) to American Analytics.



AMERICAN ANALYTICS CHAIN-OFF-CUSTODY RECORD

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Page 2 of 2

Client: APEX	Project Name / No.: Dutchess 093-0000	Sampler's Name: JAMES ALVAREZ
Project Manager: PAISITA JAGGUSORN	Site Address: 51 Corbin Street PRESTAV	Sampler's Signature: <i>Paisita Jaggusorn</i>
Phone: (925) 244-2857	City: Pleasanton	P.O. No.:
Fax:	State & Zip: CA 94566	Quote No.:

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