

**MICROBIAL INSIGHTS, INC.**

10515 Research Dr., Knoxville, TN 37932  
 Tel. (865) 573-8188 Fax. (865) 573-8133

**CSIA**

**Client:** Albuquerque Environmental Health Departme  
**Project:** Los Angeles Landfill

**MI Project Number:** 034QH  
**Date Received:** 08/09/2019

**Sample Information**

Client Sample ID:	LALF12-W-2019 08081111	LALF24-W-201 908081345	LALF09-W-201 908150927	LALF10-W-2019 08151100	GWEX2-W-2019 08151257
Sample Date:	08/08/2019	08/08/2019	08/15/2019	08/15/2019	08/15/2019
Analyst/Reviewer:	KH	KH	KH	KH	KH

**Carbon****Units**

	$\delta^{13}\text{C}$ , VPDB (‰)	NA	NA	NA	-25.3 (J)	NA
$^{13}\text{C}/^{12}\text{C}$ cis-DCE (‰)	$\delta^{13}\text{C}$ , VPDB (‰)	-19.9	NA	-22.5	-23.1	-21.5
$^{13}\text{C}/^{12}\text{C}$ PCE (‰)	$\delta^{13}\text{C}$ , VPDB (‰)	NA	-24.1	-24.9	-24.9	NA
$^{13}\text{C}/^{12}\text{C}$ TCE (‰)	$\delta^{13}\text{C}$ , VPDB (‰)					

**Legend:**

NA= Not Analyzed NS=Not Sampled J= Estimated concentration below PQL but above LQL ND= Not Detected

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**Project:** Los Angeles Landfill

**MI Project Number:** 034QH  
**Date Received:** 08/09/2019

**Sample Information**

**Client Sample ID:** GWEX4-W-2019  
08151440

**Sample Date:** 08/15/2019  
**Analyst/Reviewer:** KH

<b>Carbon</b>	<b>Units</b>	
<sup>13</sup> C/ <sup>12</sup> C cis-DCE (‰)	δ <sup>13</sup> C, VPDB (‰)	-25.7 (J)
<sup>13</sup> C/ <sup>12</sup> C PCE (‰)	δ <sup>13</sup> C, VPDB (‰)	-23.5
<sup>13</sup> C/ <sup>12</sup> C TCE (‰)	δ <sup>13</sup> C, VPDB (‰)	-25.0

**Legend:**

NA= Not Analyzed NS=Not Sampled J= Estimated concentration below PQL but above LQL ND= Not Detected

**Quality Assurance/Quality Control Data**

**Samples Received 8/9/2019**

<b>Component</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Arrival Temperature</b>	<b>Positive Control (% Std. Dev.)*</b>	<b>Blank</b>
<sup>13</sup> C/ <sup>12</sup> C PCE (‰)	08/09/2019	09/09/2019	0 °C	0.2	Pass
<sup>13</sup> C/ <sup>12</sup> C TCE (‰)	08/09/2019	09/09/2019	0 °C	0.1	Pass
<sup>13</sup> C/ <sup>12</sup> C cis-DCE (‰)	08/09/2019	09/09/2019	0 °C	0.3	Pass

\* <sup>13</sup>C δ positive control values are within +/- 0.5‰ of true value.