Sampling and Testing Plan
Sunrise Powerlink Project

Prepared for

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1. INTRODUCTION

1.1 Background

Geosyntec was previously contracted by the San Diego Gas and Electric Company (SDG&E) to prepare a Phase I Environmental Site Assessment for the Environmentally Superior Southern Route of the Sunrise Powerlink (Sunrise ESA) to address the following Sunrise Mitigation Measures stipulated by the California Public Utilities Commission (CPUC), and the United States Bureau of Land Management (BLM):

- Mitigation Measure HS-APM-5, “All Government Code §65962.5 sites or other known contamination sites along the transmission line ROW or such sites that would affect construction work shall be investigated to determine potential impacts to the project;”

- Mitigation Measure P-2a, “Test for residual pesticide/herbicides on currently or historically farmed land;” and

- Mitigation Measure P-7a (step 1), “Investigate the site to determine whether it has a record of hazardous material contamination which would affect construction activities. This investigation should be performed as a Phase I ESA.”

Based on the findings and conclusions of the Sunrise ESA, Geosyntec provided recommendations to further address the above-referenced Sunrise Mitigation Measure P-2a. Recommended actions included soil sampling for pesticides/herbicides at seven properties.

1.2 Objective

Pursuant to Sunrise Mitigation Measure P-2a, Geosyntec has prepared this Sampling and Testing Plan (STP) to evaluate the presence of pesticides/herbicides on properties which will be disturbed during construction of the proposed Sunrise Powerlink which have been identified as currently or historically farmed land. Descriptions of the seven properties identified for sampling and testing are presented in Table 1. If additional agricultural properties are identified to require testing as a result of modifications to the proposed transmission corridor alignment, then the properties will be assessed in a manner consistent with the procedures outlined herein.

In accordance with Sunrise Mitigation Measure P-2a, this STP has been prepared in consultation with the County of San Diego, Department of Agriculture, Weights, and Measures (AWM), and will be implemented by an appropriate California-licensed professional and soil samples will be sent to a California-certified laboratory for analysis. During consultation with the AWM, it was indicated that the AWM does not possess the authority to review such documents and cannot provide comments on the STP.
2. **SOIL SAMPLING PROCEDURES**

2.1 **Sampling Methodology**

The sampling protocol described herein was adapted from the Department of Toxic Substances Controls’ *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, dated 7 August 2008 [DTSC, 2008] and developed in accordance with Sunrise Mitigation Measure P-2a to evaluate the concentrations of pesticides and herbicides on properties identified as current or former farmed land.

Properties identified as currently or historically farmed land will be evaluated as follows:

- A minimum of one surface soil boring (0 to 6 inches below ground surface) will be advanced for each acre of applicable land area at each site;
- A minimum of four soil borings will be advanced per site;
- A minimum of four soil samples (single or composite, not including duplicate samples) will be analyzed per site;
- Composite samples will be prepared for sites greater than four acres and will be composed of a maximum of four soil samples per composite sample;
- Approximately 10% of samples collected will be duplicated and analyzed to evaluate the consistency of results; and
- Samples will be analyzed for organochlorine pesticides (OCPs) by EPA Method 8081A and arsenic by EPA Method 6010B.

2.2 **Sample Collection and Handling**

Soil samples will be collected using clean stainless-steel hand tools to a depth of approximately 0.5 feet below ground surface (ft bgs). Soil samples will be preserved and contained as follows:

<table>
<thead>
<tr>
<th>ANALYSIS</th>
<th>PRESERVATIVE</th>
<th>SAMPLE CONTAINER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>Ice</td>
<td>8 oz. glass jar</td>
</tr>
<tr>
<td>Organochlorine Pesticides (OCPs)</td>
<td>Ice</td>
<td></td>
</tr>
</tbody>
</table>

2.3 **Sample Transportation**

The sample containers will be capped, labeled, and sealed in plastic bags, stored on ice, and transported in a sample cooler to California-certified laboratory under chain of custody procedures.
2.4 **Quality Assurance/Quality Control Samples**

One duplicate sample will be collected for every 10 samples collected in the field (equal to approximately 10% of samples collected). Data obtained from duplicate samples will be used to evaluate the precision of laboratory data. Duplicate samples from a single sample point will be prepared using soil from the same boring location and interval; soils will be bagged and homogenized prior to separation and containerization. Duplicates from composite samples will be collected from the same homogenized sample from which the composite sample is obtained. Each duplicate sample will be transported to the same analytical laboratory and analyzed for the same constituents as the primary soil samples.

2.5 **Analytical Methods**

Analytical methods requested for the soil samples will be listed on each chain-of-custody form. Laboratory analyses will be performed at a California Department of Health Services-certified laboratory. The table below outlines the analytical methods to be followed by the laboratory during sample analysis. The method detection limit (MDL) and reporting limit (RL) for each compound will be reported on the certificates of analysis.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>EPA 6010B</td>
</tr>
<tr>
<td>Organochlorine Pesticides (OCPs)</td>
<td>EPA 8081A</td>
</tr>
</tbody>
</table>
3. REPORTING

Following receipt of analytical data from the laboratory, a report will be prepared to document the areas sampled, the process used for sampling, the results of testing, and recommendations, if necessary. The report shall be submitted to the CPUC and BLM for review and approval at least 60 days prior to construction. If laboratory results indicate that material was found to exceed regulatory requirements, recommended resolutions for handling and excavation of impacted soil shall be submitted to the CPUC and BLM (if on BLM land) at least 30 days prior to construction.
4. REFERENCES


# TABLE 1
Sites Identified for Agricultural Testing
Sampling and Testing Plan
Sunrise Powerlink

<table>
<thead>
<tr>
<th>Geosyntec Site ID</th>
<th>Site Name</th>
<th>Assessors Parcel Number</th>
<th>Owner</th>
<th>Current Site Use</th>
<th>Approximate Site Acreage</th>
<th>Estimated Number of Borings to be Advanced</th>
<th>Estimated Number of Samples to be Analyzed</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Jacumba Valley Ranch</td>
<td>66002005</td>
<td>Jacumba Valley Ranch, C/O Karl Turecek</td>
<td>Row crops</td>
<td>10</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>34</td>
<td>Agricultural field</td>
<td>52711005</td>
<td>Tulloch Family Partners, LP</td>
<td>Graded field</td>
<td>30</td>
<td>30</td>
<td>8</td>
</tr>
<tr>
<td>39A</td>
<td>Westfall Property</td>
<td>60712062</td>
<td>Westfall Revocable Trust</td>
<td>Vinyard</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>144</td>
<td>Agricultural field</td>
<td>39106101</td>
<td>Helix Water District</td>
<td>Vacant</td>
<td>20</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>136</td>
<td>Agricultural field</td>
<td>39006008</td>
<td>Hartung Family Trust 02-06-97</td>
<td>Cleared agricultural fields with structures</td>
<td>17</td>
<td>17</td>
<td>5</td>
</tr>
<tr>
<td>137</td>
<td>Agricultural field</td>
<td>39006002</td>
<td>Digenan John J &amp; Mildred C Family Trust 06-15-94</td>
<td>Mostly vacant with a trailer and fence</td>
<td>1</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

*Table 1 - Ag sites for testing.032410.F.xls*