

Date: August 14, 2024

REVISED Chart of Proposed Stipulated Modifications for August South Coast AQMD Hearing

| Condition No | South Coast AQMD Proposed Modification | | |
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| 1(a) | Respondent, or Respondent’s contractor, as applicable, shall conduct community odor surveillance at least twice each operating day, once between the hours of 6 7:00 a.m. and 11:00 a.m. and once between the hours of 7 8:00 p.m. and 12:00 a.m. | | |
| 1(b) | | Stop | Description |
| | | 1. | Intersection of Chiquito Canyon Road and driveway leading to the LA County Fire's Del Valle Regional Training Center |
| | | 2. | Intersection of Chiquito Canyon Road and Lincoln Avenue |
| | | 3. | Intersection of Lincoln Avenue and Jackson Street |
| | | 4. | Intersection of Lincoln Avenue and Harding Avenue |
| | | 5. | Intersection of Buchanan Way and Chiquito Canyon Road |
| | | 6. | Intersection of Chiquito Canyon Road and San Martinez Road |
| | | 7. | Intersection of San Martinez Road and Morningside Drive |
| | | 8. | Intersection of Lexington Drive and Morningside Drive |
| | | 9. | Intersection of Val Verde Road and Trellis Road |
| | | 10. | Intersection of San Martinez Road and Euclid Ave. |
| | | 11. | Intersection of San Martinez Road and Keningston Road |
| | | 12. | Intersection of Hunstock Street and Windsor Road |
| | | 13. | Intersection of Del Valle Road and Silver Street |
| | | 14. | Intersection of Del Valle Road and Hasley Canyon Road |
| | | 15. | Intersection of Hasley Canyon Road and Gibraltar Lane |

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| | | 16. | Intersection of Gibraltar Lane and Alton Way | |
| | | 17. | Intersection of Gibraltar Lane and Springvale Lane | |
| | | 18. | Intersection of Castlebury Place and Picadilly Place | |
| | | 19. | Intersection of Gibraltar Lane and Cambridge Avenue | |
| | | 20. | Intersection of Cambridge Avenue and Hasley Canyon Road | |
| | | 21. | Intersection of Creekbed Road and Firebrand Drive | |
| | | 22. | Intersection of The Old Road and Hillcrest Parkway | |
| | | 23. | Intersection of Hillcrest Parkway and Park Vista Drive at Castaic Elementary School | |
| | | 24. | Intersection of Hasley Canyon Road and Commerce Center Drive (Santa Clarita Valley International School & PlayMakers Preschool) | |
| | | 25. | Intersection of The Old Road and Live Oak Road | |
| | | 26. | Intersection of Live Oak Road and Hidden Trail Road | |
| | | 27. | Intersection of Rangewood Road and Buckskin Drive | |
| | | 28. | Intersection of Live Oak Elementary School at Saddleridge Way | |
| | | 29. | Intersection of Quincy Street and Cambridge Avenue | |
| | | 30. | Intersection of Commerce Center Drive and Witherspoon Parkway | |
| | | 31. | Intersection of Franklin Parkway and driveway leading to the United States Postal Service | |
| | | 32. | Intersection of Henry Mayo Drive and Cambridge View Drive, leading into the Valencia Travel Village RV Resort | |

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| | | 33. | Intersection of Valencia Boulevard at West Ranch High School | |
| | | 34. | Intersection of Magic Mountain Parkway and Commerce Center Drive | |
| | | 35. | Intersection of Commerce Center Drive and Middleton Street | |
| | | 36. | Intersection of Middleton Street and Magic Mountain Parkway | |
| | | 37. | Intersection of Hasley Canyon Road and Valley Glen Street | |
| | | 38. | Intersection of Hasley Canyon Road and Sloan Canyon Road | |
| | | 39. | Intersection of Sloan Canyon Road and Hillcrest Parkway | |
| | | 40. | Intersection of Hillcrest Parkway and The Old Road | |
| | | 41. | Intersection of Hillcrest Parkway at Castaic Middle School | |
| | | 42. | Intersection of Parker Road and The Old Road | |
| | | 43. | Intersection of Parker Road and Cherry Drive | |
| | | 44. | Intersection of Parker Road and Sloan Canyon Road | |
| | | 45. | Intersection of Lake Hughes Road and Castaic Road | |
| 2 | Respondent shall maintain records of all Odor Surveillance Logs for the duration of this Order and shall make them available for inspection by South Coast AQMD in an easy-to-review chart-style format within 5 working days upon request. | | | |
| 7(a) | The hourly and daily flow of landfill gas combusted, in standard cubic feet, in each flare (flares No. 1 & No. 2 under Permit G73696, A/N 645450; flare No. 3 under A/N 624296), the thermal oxidizer (under Envent Corporation A/N 645484), the second thermal oxidizer/flare (under A/N 653611Zeeco A/N 648539), and any other equipment used to combust or control landfill gas at the facility, and the total amount of landfill gas combusted at the facility; | | | |
| 8(m) | Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15; an updated vertical extraction well map detailing all existing fully functional working vertical extraction wells and the vertical extraction well additions completed within the month; a map showing an overlay of fully operational working wells, and landfill surface monitoring grids, and outlines of the two defined areas pursuant to Condition 15(b), and outlines of the areas demarcated as exempt in the attached | | | |

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| | Exhibit A pursuant to Condition 15(b) ; and copies of as-built well logs (regarding well depth installations and updates) for vertical extraction wells completed within the month. |
| (8(r)) | Daily landfill gas composition analysis, including CH4%, CO concentration (ppm), CO2%, and O2%, as recorded by a real time analyzer and/or sample collected, at the inlets of the control equipment (TOx, Flares, and any additional control equipment brought on site to combust landfill gas). The analysis shall be conducted by a South Coast AQMD approved analyzer for CH4, CO2, or O2 and analyzed pursuant to U.S. EPA Method 10 or Method ALT-144 for CO. Request for approval shall include submittal of analyzer specifications. |
| (8(s)) | Updates regarding the procurement of the equipment needed to construct Flare No. 4 pursuant to Condition No. 74. |
| 9 | Respondent shall collect integrated landfill surface samples for analysis across the Reaction Area (as defined in Condition 9(a)) at least three times per month, at intervals no more than once every 7 days (unless conducting additional monitoring events exceeding three per month), every two weeks and additionally across the remainder of the landfill at least four times per quarter as specified in Rule 1150.1 Attachment A 2.0. In the event... |
| 10 | Respondent shall conduct instantaneous landfill surface monitoring across the Reaction Area (as defined in Condition 9(a)) at least three times per month, at intervals no more than once every 7 days (unless conducting additional monitoring events exceeding three per month), every two weeks and additionally across the remainder of the landfill at least four times per quarter as specified in Rule 1150.1, Attachment A 3.0, beginning no later than seven (7) days after the issuance of this Order. In the event... a. In addition to standard instantaneous surface monitoring of the 50,000 sqft grids, Respondent shall conduct instantaneous landfill surface monitoring along the outer border/edges of the geosynthetic cover(s) installed on site. |
| 12(f) | Beginning in March 2024, Respondent shall host a monthly virtual meeting with all members of the Reaction Committee and South Coast AQMD technical staff. The purpose of the monthly meeting shall be to allow Reaction Committee members to provide an update on progress of ongoing and future planned work performed/to be performed pursuant to this Order which is directly related to the subsurface reaction at the Landfill, and allow South Coast AQMD to provide recommendations and/or feedback on such progress. i. To facilitate each meeting, Respondent shall provide South Coast AQMD (attn: Baitong Chen, bchen@aqmd.gov ; Nathaniel Dickel, ndickel@aqmd.gov ; Christina Ojeda, cojeda@aqmd.gov ; Payam Pakbin, ppakbin@aqmd.gov ; Kathryn Roberts, kroberts@aqmd.gov ; Mary Reichert, mreichert@aqmd.gov) a proposed agenda listing the topics to be discussed, and the presenter, no later than ten (10) calendar days prior to the meeting. South Coast AQMD shall have the option to expand the agenda to include additional topics within the purview of the Reaction Committee. If South Coast AQMD elects to expand the agenda, it shall provide notice to Respondent no later than four (4) calendar days prior |

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| | <p>to the meeting. <u>Any tables, graphs, or documents that will be presented during the meeting shall be provided to South Coast AQMD no later than two (2) calendar days prior to the meeting.</u></p> |
| (12(g)(vii)(A)) | <p><u>Respondent shall update this model and submit to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)] a report summarizing the updated model and results of modeling on a semi-annual basis beginning on January 7, 2025 and every six calendar months thereafter.</u></p> |
| 12(i) | <p>Respondent has conducted an initial flux chamber study pursuant to the direction of the Los Angeles County Department of Public Health, and an additional flux study pursuant to this Order. Respondent shall submit a report documenting the findings of the initial study no later than October 31, 2023 to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)]. Respondent shall conduct an additional landfill gas flux studies for methane, non-methane organic compounds (“NMOC”), toxic air contaminants (TAC), total reduced sulfur (“TRS”), and speciated sulfur compounds to determine the surface flux throughout the landfill <u>starting with Quarter Four 2024 and once every four months thereafter.</u> The studies shall be conducted through the use of dynamic flux chambers oriented at various locations throughout the landfill site, <u>according to a South Coast AQMD approved protocol.</u> Respondent shall prepare a proposed protocol(s) for the study(ies) and shall submit the protocol(s) to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)] for review and approval by December 31, 2023. <u>at least 75 days prior to the start of the month in which the test is planned, unless otherwise approved in writing by South Coast AQMD. A previous flux study protocol, reviewed and approved by South Coast AQMD, may be used if the proposed testing will follow all aspects of the prior South Coast AQMD approved protocol, with the exception of the testing/sampling locations on site. Reports detailing the operational conditions, methodology, quantity of tests and locations, sampling location determination, sampling results, data analysis, emission results, discussion of the results, and comparison of previous flux chamber test results to the current results shall be submitted by no later than 45 days after the end of the month during which a test was conducted, or no later than 90 days after South Coast AQMD approves the protocol, whichever is later, to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)], unless otherwise approved in writing by South Coast AQMD. The initial flux study report, covering the flux study for the fourth quarter of year 2024, shall be submitted earlier than the schedule indicated above, by January 15, 2025 to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)], unless otherwise approved in writing by South Coast AQMD. Respondent shall provide notice of the test date for each test to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)] at least 14 days prior to the scheduled test. A report documenting the differences in the findings between the initial study and the additional study shall be submitted by no later than 90 days after South Coast AQMD</u></p> |

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| | <p>approves the protocol to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)]. A report documenting the differences in the findings between the initial study and the additional study shall be submitted by June 3, 2024 to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)].</p> |
| 15(b) | <p>i. By January 6, 2025, unless otherwise approved in writing by the South Coast AQMD, Respondent shall install vertical landfill gas extraction wells in the initial Reaction Area (including the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2 as defined in Condition 9(a)). These wells shall be fully operational, working wells, <u>installed with desired depth within the landfill waste mass (approximately 30 ft from the bottom liner)</u>, with the ability to extract landfill gas within the depths of the landfill waste mass and deliver it to the gas control system(s). Respondent shall achieve a vertical gas extraction well density of <u>wells installed at the desired depth</u>, at a minimum, an average of three (3) wells per acre within the initial Reaction Area stated above, and within the estimated extent of elevated temperature landfill conditions as depicted by the Reaction Committee in their monthly determinations submitted in accordance with Condition 9(a). The wells <u>with the desired depth</u> shall be installed with even dispersion, achieving a well density of at least two (2) vertical extraction wells <u>within any one</u> acre, except for the areas demarcated in the attached Exhibit A to this Modified Stipulated Order.</p> <p><u>ii. The following interim deadlines shall apply to this Condition 15(b) for wells installed with the desired depth:</u></p> <p><u>A. By July 1, 2024, installation of 50% of wells necessary to achieve the well installation density; and</u></p> <p><u>B. By October 1, 2024, installation of 75% of wells necessary to achieve the well installation density.</u></p> <p><u>iii. In the circumstance that vertical landfill gas extraction wells are incapable of being installed with the desired depth within the initial Reaction Area in accordance with the schedule specified above, due to the ongoing Reaction Area conditions, Respondent shall install the wells to the depths achievable at the densities specified in Condition No. 15(b)(i) above, and in accordance with the schedule specified in Condition Nos. 15(b)(i), 15(b)(ii)(A), and 15(b)(ii)(B). Respondent shall then achieve the well installation depth and density requirements of described above in Condition 15(b)(i) by August 17, 2026, unless otherwise approved in writing by South Coast AQMD.</u></p> <p><u>iv. If any reading of 500 ppmv TOC or greater is detected during instantaneous surface monitoring required by Condition No. 10, corrective actions shall be taken by the Respondent within 2 calendar days after detecting the exceedance, including, but not limited to the following: cover maintenance or repair, or well vacuum adjustments. The location shall be remonitored no later than 10 calendar days after detecting the exceedance. If the remonitoring of the location shows a second exceedance, the Respondent shall install and operate the new and/or replacement well(s) no later than 30 days after detecting the initial exceedance, or otherwise approved in writing by South Coast AQMD.</u></p> |

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| | <p>v. <u>If any reading of 25 ppmv TOC or greater is detected during integrated surface sampling required by Condition No. 9, corrective actions shall be taken by Respondent within 2 calendar days after detecting the exceedance, including, but not limited to, the following: the gas collection equipment and the landfill cover shall be serviced in the vicinity of the grid with the exceedance (e.g. cover maintenance or repair, or well vacuum adjustments). The grid shall be resampled no later than 10 calendar days after detecting the exceedance. If the resampling of the grid shows a second exceedance, the Respondent shall install and operate the new and/or replacement well(s) no later than 30 days after detecting the initial exceedance, or otherwise approved in writing by South Coast AQMD.</u></p> <p>vi. <u>An extension to the well installation timelines under Condition 15(b)(iv and v) above may be requested in writing, submitted to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)]. The extension request shall be submitted at least 7 days prior to the 30-day well installation deadline, and shall include, at a minimum, the instantaneous surface monitoring and/or integrated surface sampling data, corrective actions performed, date of all monitoring/sampling and corrective actions performed, and detailed reasoning of equipment delays, operational concerns, safety concerns, or other reasons inhibiting the installation of the well(s) according to the 30-day schedule.</u></p> |
| 15(l) | Respondent shall install well boots seals on all wells in the Reaction Area in accordance with the installation schedule for the geosynthetic cover that is being installed pursuant to Condition No. 32 31 and consistent with requirements of the Local Enforcement Agency; |
| (15(o)) | <u>Respondent shall, on a monthly basis determine whether any of the existing landfill gas collection wells in the Reaction Area (as defined in Condition 9(a)), which were not able to be drilled and installed at the desired well depth (generally approximately 30 ft above the bottom liner), can be expanded deeper or drilled to achieve the initially desired depth, or whether new replacement wells can be drilled nearby to the achieve the initially desired depth. This determination shall include an evaluation of the landfill gas well/wellbore conditions, landfill liquid/leachate flow data, pressurized liquid/leachate release data, and landfill gas data, wellhead temperature data, temperature probe data, and any additional parameters as necessary. Respondent shall report on the monthly determination, along with any supporting evidence and reasoning for the determination, as part of the monthly report pursuant to Condition No. 8, beginning with the report submitted in October 2024 covering data from September 2024.</u> |
| 23 | Respondent shall continue to use <u>one or</u> both 4,000 scfm flares (under Permit No. G73696, A/N 645450) when the Reaction Committee determines that such use is necessary due to insufficient flaring capacity or other such necessity-based situations, until the third second new 6,000 scfm ultra-low emissions flare (Flare No. <u>54</u>) referenced in Condition No. <u>70(a)</u> 21 is permitted and operational. |
| (27(e)) | <u>Respondent shall report to South Coast AQMD any leachate leak or spill separately from leachate seeps reports specified in Condition 27(c). The report shall be submitted to South Coast AQMD [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector,</u> |

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| | [cojeda@aqmd.gov] within 48 hours of discovering the leak or spill. The report shall, at a minimum, include (1) the date and time of the leak or spill; (2) area designation inspected; (3) the name of the person that discovered the leak or spill; (4) written acknowledgement that they did, or did not, take corrective action with rationale for these actions; (5) a root cause analysis on why and how the leak or spill occurred; (6) the estimated quantity of the leak or spill; (7) corrective actions to prevent future recurrence. |
| (27(f)) | Respondent shall develop Standard Operating Procedures (SOPs) for leachate tank operations in accordance with industry standards and best management practices, to prevent leachate tank overflow, failure, and spillage in the tank farm areas. Respondent shall additionally conduct daily inspections of leachate tanks, tank connections ports, valves, tank hoses, and any other equipment associated with leachate tank filling/emptying operations, to determine equipment condition material integrity, to prevent leaks. The SOPs shall be submitted to South Coast AQMD for review and approval [Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)], by no later than September 15, 2024, unless otherwise approved in writing by South Coast AQMD. The SOPs shall be implemented within 7 days of South Coast AQMD approval. |
| 33 | Respondent shall follow the direction of DPH to expand and enhance its current ambient air monitoring program to include DMS and other constituents of landfill gas, sampling at residential locals where recent odor complaints have been reported and at on-site locations where odors are most pronounced, and to conduct a flux chamber study (the “initial” flux chamber study discussed in Condition No. 12(d)). Any reports submitted to DPH related to these studies shall also be submitted to the South Coast AQMD... |
| 34(c) | Respondent shall, by April 30, 2024, retain a third party to develop and install a system that provides automatic electronic notification via email for any exceedance of the applicable 1-hour NAAQS, CAAQS, or acute 1-hour OEHHA REL, whichever is lower (both in time and concentration) based on a time weighted average for benzene and H2S monitored in real-time by Respondent’s monitoring network within the surrounding community (MS-06 through MS-12) by May 30, 2024. Additionally, by September 15, 2024 Respondent, through its retained contractor, shall develop and install a system allowing identical electronic notification via email for any exceedance of the applicable 1-hour NAAQS, CAAQS, or acute 1-hour OEHHA REL, whichever is lower (both in time and concentration) based on a time weighted average for benzene and H2S monitored in real-time by Respondent’s monitoring network surrounding the Landfill (MS-01 through MS-05). Such systems shall also provide an automatic electronic notification once the applicable time weighted average falls below the applicable REL. Respondent shall be responsible for the third party including in such system a method for members of the public to sign up to receive such notifications without any personally identifying information (including email address) being disclosed to Respondent. Respondent shall be responsible for the third party putting into effect the notification system within three business days of direction from South Coast AQMD. |
| 42(k) | Excavated landfill material and refuse shall be immediately, not to exceed 21 hours, relocated for burial onsite, immediately deposited into trucks/trailers for off-site transport and completely covered with automated vinyl tarps, with such covers tied down, except for during active loading/unloading of refuse. |

| 42(m) | Respondent shall ensure that there is no track-out from the excavation area. Respondent shall ensure that all trucks used for excavation in Reaction Area go through a rumble strip before exiting the excavation area, and Respondent shall ensure that all trucks shall, following the conclusion of excavation, but not less than once per day, be free of excavation materials. The rumble strip(s) shall be adequately sized consistent with South Coast AQMD Rule 403 and maintained as to prevent saturation/caking of soils that would cause the unit to become ineffective in removing soil from tires. | | | | | | | | | | | | | | |
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| 42(o) | Daily inspections shall be conducted of any covered excavation area (per Conditions 412(i) , 412(j) , and 412(n) above) to ensure the integrity of the cover(s) is maintained and secured so that no portion of the soil is exposed to atmosphere... | | | | | | | | | | | | | | |
| (42(t)) | During excavation, odor neutralizer and/or odor suppressant (e.g. clay binder polymer spray-applied crusting cover material), shall be applied to the excavation working face and excavated materials to minimize emissions and odor without creating a safety hazard condition. Odor neutralizer applying equipment may include but not be limited to, fans and arm tower misters. | | | | | | | | | | | | | | |
| (42(u)) | During excavation in the Reaction Area as defined in Condition 9(a), Respondent shall employ fresh, new (unused) bed liners in trucks for each load during loading and transport. Respondent shall change out the existing bed liners in the trucks with fresh, new bed liners for each subsequent load in each truck. | | | | | | | | | | | | | | |
| (42(v)) | Respondent shall post a notice on the front page of its website (chiquitacanyon.com), and notify in writing all addresses located within 5,280 feet (1 mile) of the excavation area, at least 48 hours in advance of planned excavation commencement with a short description of the proposed excavation work, the estimated times of day excavation is proposed to occur, the estimated excavation start date, and estimated excavation end date. For unplanned excavation, or excavation where there is insufficient time to provide written notice at least 48 hours in advance of commencement, and where such excavation is expected to last more than one day, Respondent shall post a notice on the front page of its website as soon as possible upon learning such excavation is necessary, not to exceed 2 business hours. A copy of this notification shall be submitted to South Coast AQMD [Attention: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov]. | | | | | | | | | | | | | | |
| (42(w)) | <p>If a South Coast AQMD Rule 402 Nuisance Notice of Violation is received by the Respondent during excavation, or a distinct odor (level 3 or greater per below Odor Scale) resulting from the excavation is detected at or beyond the property line, then the Respondent shall, in accordance with its Health and Safety Plan, conduct ambient air quality sampling within 2 hours of receipt of Rule 402 Nuisance Notice of Violation or of when a distinct odor (level 3 or greater) is detected at or beyond the property line and analyze for TOC and speciated TOCs as follow:</p> <table border="0" data-bbox="390 1166 1220 1406"> <thead> <tr> <th>Odor Scale</th> <th>Description of Odor Intensity</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No odor detected</td> </tr> <tr> <td>1</td> <td>Very light odor detected</td> </tr> <tr> <td>2</td> <td>Light odor detected, distinguishable</td> </tr> <tr> <td>3</td> <td>Moderate odor, very distinguishable</td> </tr> <tr> <td>4</td> <td>Strong odor, very distinguishable, irritable</td> </tr> <tr> <td>5</td> <td>Very strong odor, very distinguishable, overpowering</td> </tr> </tbody> </table> | Odor Scale | Description of Odor Intensity | 0 | No odor detected | 1 | Very light odor detected | 2 | Light odor detected, distinguishable | 3 | Moderate odor, very distinguishable | 4 | Strong odor, very distinguishable, irritable | 5 | Very strong odor, very distinguishable, overpowering |
| Odor Scale | Description of Odor Intensity | | | | | | | | | | | | | | |
| 0 | No odor detected | | | | | | | | | | | | | | |
| 1 | Very light odor detected | | | | | | | | | | | | | | |
| 2 | Light odor detected, distinguishable | | | | | | | | | | | | | | |
| 3 | Moderate odor, very distinguishable | | | | | | | | | | | | | | |
| 4 | Strong odor, very distinguishable, irritable | | | | | | | | | | | | | | |
| 5 | Very strong odor, very distinguishable, overpowering | | | | | | | | | | | | | | |

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| | <p>a. <u>Samples shall be collected at the following locations: immediately upwind of the excavation site, immediately downwind of the excavation site, within 3 inches of the exposed excavation workface, safety permitting, and at the downwind property line, or other location(s) approved in writing by South Coast AQMD. If deemed unsafe, Respondent shall document the date and conditions preventing compliance with this condition. Records of such conditions shall be submitted in the following monthly report pursuant to Condition 8.</u></p> <p>b. <u>Sampling shall conform to CARB Method 422 or equivalent. Samples with high moisture shall be collected using an appropriate method such as South Coast AQMD Method 25.1/25.3 or other methods approved in writing by South Coast AQMD.</u></p> <p>c. <u>Samples shall be analyzed by EPA Method TO-3, and EPA Method TO-15/TO-15A or other method approved in writing by South Coast AQMD.</u></p> <p>d. <u>All collected samples shall be sent to an appropriate laboratory for analysis, within 24 hours of the sample collection, with expedited analysis requested. All lab results shall be reported to South Coast AQMD [Attention: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov; Steve Dutz, sdutz@aqmd.gov] within 48 hours of receipt from the laboratory.</u></p> |
| (42(x)) | <p><u>During excavation, TOC and speciated TOC ambient air sampling shall be conducted at least once between the hours of 6:00am and 11:00am, and at least once between the hours of 2:00pm and 6:00pm, according to Respondent's Health and Safety Plan and the following requirements:</u></p> <p>a. <u>Samples shall be collected at the following locations: immediately upwind of the excavation site, immediately downwind of the excavation site, within 3 inches of the exposed excavation workface, safety permitting, and at the downwind property line, or other location(s) approved in writing by South Coast AQMD. If deemed unsafe, Respondent shall document the date and conditions preventing compliance with this condition. Records of such conditions shall be submitted in the following monthly report pursuant to Condition 8.</u></p> <p>b. <u>Sampling shall conform to CARB Method 422 or equivalent. Samples with high moisture shall be collected using an appropriate method such as South Coast AQMD Method 25.1/25.3 or other methods approved in writing by South Coast AQMD.</u></p> <p>c. <u>Samples shall be analyzed by EPA Method TO-3, and EPA Method TO-15/TO-15A or other method approved in writing by South Coast AQMD.</u></p> <p>d. <u>All collected samples shall be sent to an appropriate laboratory for analysis, within 24 hours of the sample collection, with expedited analysis requested. All lab results shall be reported to South Coast AQMD [Attention: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov; Steve Dutz, stdutz@aqmd.gov] within 48 hours of receipt from the laboratory.</u></p> |

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| 52 | Respondent shall reserve 60 30 minutes biweekly to host a virtual meeting between South Coast AQMD technical staff and Respondent / Respondent’s technical consultants to discuss key updates on Respondent’s implementation of this Order and any changes to Landfill conditions or operations. Any instance of the biweekly meeting may be cancelled at South Coast AQMD’s sole discretion. |
| 55 | Respondent shall immediately cease injection of landfill gas condensate into the landfill gas control flares, unless the condensate injection is initially performed for the purposes of a source test required under this condition. Any injection of condensate collected after the sulfur treatment carbon absorbers to the flares may be allowed if each of the following criteria are fulfilled: a. The condensate has been sampled/analyzed and determined as non-hazardous in accordance with hazardous material requirements by respective agencies (U.S. EPA and DTSC), with sampling/analysis results provided to South Coast AQMD along with specified regulatory hazardous waste thresholds; b. The condensate tank has not received any additional liquid after the sampling/analysis performed in Condition 37 55(a) and will not receive any additional liquids prior to or during injection/combustion; |
| 68 | Respondent shall by June 15, 2024, install appropriately ranged differential pressure gauges, with at least 0.01 inches water column resolution, or pressure gauge otherwise approved in writing by South Coast AQMD, on each leachate storage tank. Respondent shall monitor and record daily the differential pressure of each leachate tank, tank identification number, date and time of the reading, and the personnel that conducted the reading. <u>Pressure readings that indicate the lowest value of the gauge or the highest value of the gauge, shall be reported using significant digits to the hundredths place as “<= [lowest value on gauge] (e.g. <= -0.50 inches water column)” and “>= [highest value on gauge] (e.g. >= 0.50 inches water column)”, respectively. The tanks shall be maintained under negative pressure, as demonstrated by differential pressure readings. Zero and positive pressure readings do not demonstrate negative pressure.</u> Pressure gauges shall be calibrated according to manufacturer specifications and schedule. Respondent shall report all the recordings in the monthly report pursuant to Condition No. 8. |
| 70 | Respondent shall, by June 28, 2024, submit a report on the landfill’s current landfill gas generation and projected landfill gas generation for the next five calendar years, through the end of calendar year 2029. The current and projected landfill gas generation shall be estimated through use of U.S. EPA’s Landfill Gas Emissions Model (LandGEM), and the Reaction Committee’s analysis for additional landfill gas generated as a result of the ongoing reaction. The report shall include, at a minimum, the following items: <ol style="list-style-type: none"> 1. LandGEM inputs, assumptions, and results; 2. Reaction Committee analysis and associated rationale and supporting data or information; and 3. A comparison of the estimated landfill gas generation, both current and projected, with the landfill’s flaring capacity, both current and proposed, assuming one or more flares or thermal oxidizers are offline due to maintenance, overhaul, or other unforeseen circumstances. Based on the report findings, if the landfill gas generation is expected to exceed the landfill’s flaring capacity when one or more |

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| | <p>flares or thermal oxidizers are offline, Respondent shall start the planning and procurement process for the addition of an additional flare, thermal oxidizer, or other landfill gas combustion/control equipment and ensure sufficient redundant control capacity <u>(meaning at least one additional control unit, equivalent in landfill gas combustion capacity to the largest control unit on site, and whose operational capacity is not required to combust the quantity of gas estimated in the LandGEM)</u> to handle all generated landfill gas, assuming any one or more unit(s) is offline. Respondent shall submit, by January 7, 2025, a complete permit application for the new construction of proposed landfill gas combustion/control equipment to ensure sufficient redundant control capacity of the landfill gas control systems. The submittal shall be accompanied with a complete Title V Revision application and shall be submitted with an expedited permit processing request and associated required fees, forms, and information.</p> |
| (70(a)) | <p><u>Respondent shall submit, by October 31, 2024, a complete permit application for the new construction of a Landfill Gas Flare (Flare No. 5), and modifications of Flare 1 & 2 (G73696, A/N 645450), Flare 3 (A/N 624296), and Flare 4 (A/N 647996) to the extent necessary, to increase the landfill gas control capacity. The submittals shall be accompanied with a complete Title V Revision application and shall be submitted with an expedited permit processing request and associated required fees, forms, and information.</u></p> |
| (74) | <p><u>Respondent shall expedite the procurement of the equipment needed to construct Flare No. 4 to the maximum extent feasible such that Flare No. 4 is ready to be constructed and put into operation as soon as possible after Respondent receives all necessary permits or other approvals. Respondent shall provide updates on the procurement of this equipment in the monthly report pursuant to Condition 8(s).</u></p> |
| (76) | <p><u>Respondent shall install sample ports on all equipment on site that requires sampling, to prevent unnecessary fugitive emissions from sampling activities. By December 2, 2024, Respondent shall install sampling ports on all subject equipment and collect samples from the sampling ports thereafter, unless otherwise approved in writing by South Coast AQMD. For new equipment brought on site that requires sampling, sample ports shall be installed within 30 days of bringing the equipment on site, or within 15 days of starting operation of the equipment, whichever is sooner, unless otherwise approved in writing by South Coast AQMD.</u></p> |
| (78) | <p><u>Respondent, or Respondent’s contractor, as applicable, shall install a liner of 60 mil polyethylene sheeting (or other equivalent flexible membrane cover) overlaying two feet of compacted soil lining the bottom and 5 feet off the sides of the perimeter of each leachate tanks and/or tank farms, except for driving lanes required for trucks to access leachate tanks for leachate disposal or other routine operations or maintenance, to limit spills affecting the ground, water, and potential for re-entrained air emissions. The sheeting/membrane liner shall be inspected at least twice-daily, at the beginning and end of day, and shall be maintained free of tears, rips, etc. The inspection and maintenance records shall be recorded daily and shall contain, but not be limited to: (1) the date and time; (2) tank area designation inspected; (3) the name of the person performing the inspection and written acknowledgement that they did, or did not, take corrective action to maintain or replace the liner; (4) specific notation as to the liner maintenance performed, including but not limited to: liner repair or replacement, cleanup of spills on the liner, including volume of spill, etc. Installation shall be completed within 120 days of this Order.</u></p> |

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| (79) | <p><u>Respondent shall submit any permit applications, source test protocols, source test reports, and any other submittal requiring South Coast AQMD review and approval, with an expedited processing/review requested, along with any associated fees, forms, and information required.</u></p> |
| (80) | <p><u>Whenever South Coast AQMD permitted Various Location equipment or CARB Statewide Portable Equipment Registration (PERP) permitted equipment is brought or operated on site, the Respondent shall:</u></p> <ul style="list-style-type: none"> a. <u>Notify South Coast AQMD in writing of the date and time that the equipment is brought to the facility in the corresponding weekly report per Condition No. 8 and include a copy of the various locations permit(s) and/or PERP permit(s) in the corresponding monthly report per Condition No. 8.</u> b. <u>Maintain a daily log including the following information for each permit unit: permit number and/or registration number, application number (if applicable), equipment location, and start and end time of equipment operation (as applicable). Petitioner shall submit the daily log in the in the corresponding monthly report per Condition No. 8.</u> <p>a. <u>Notify South Coast AQMD in writing of the date and time that the equipment is removed from the facility in the corresponding monthly report per Condition No. 8.</u></p> |
| (81) | <p><u>Respondent shall provide notification, by posting an alert on the front page of its website (https://chiquitacanyon.com) for the purposes of notifying to the surrounding affected community, whenever any landfill gas collection and control equipment (i.e. gas collection wells/trenches, headers, flares, thermal oxidizer(s), blowers, etc.) has planned or unplanned downtime anticipated to last 30 minutes or more, or once any downtime has a duration of 30 minutes or longer, according to the following:</u></p> <p><u>Downtime of 30 Minutes or Longer:</u></p> <p><u>Respondent shall provide the notification required by this Condition 81 for any individual control device that has downtime which is anticipated to last 30 minutes or more, or once any downtime for an individual control device reaches 30 minutes of downtime.</u></p> <p><u>If the downtime of any combination of landfill gas collection equipment results or is planned to result in a reduction of gas flow to control devices by 10% or more (compared to the gas flow prior to the downtime of the first device), Respondent shall provide the notification required by this Condition 81 for any such control devices that have downtime which is anticipated to last 30 minutes or more, or once any downtime for such devices reaches 30 minutes of downtime.</u></p> <p><u>This notification shall be posted online at least 48 hours prior to a planned downtime event, unless the event is planned less than 48 hours before the planned downtime. If there is less than 48 hours before the planned downtime, Respondent shall provide the notification as soon as possible, within 1-hour of finalizing plans for the downtime. For unplanned downtime,</u></p> |

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| | <p><u>notification shall occur within 1-hour of reasonable discovery of any collection or control equipment issue resulting in unplanned downtime. The notification shall inform the public of the control equipment downtime, expected extent (in days/hours) of the downtime, and the possibility of increased odors in the community during the indicated period.</u></p> <p><u>Respondent shall, by November 18, 2024, develop a system allowing members of the public to sign-up for notifications of such outages or downtime via email or text message. Respondent shall develop the system such that any personally identifying information (including but not limited to name, phone number or email address) shall not be received nor retained directly by Respondent, any subsidiary or parent company of Respondent, or any direct employee of Respondent. Respondent shall deploy this system within three (3) business days of receiving notice to deploy from South Coast AQMD.</u></p> |
| (82) | <p><u>Respondent shall provide notification to South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov; Larry Israel, lisrael@aqmd.gov] whenever any landfill gas collection or control equipment (i.e. gas collection wells/trenches, headers, flares, thermal oxidizer(s), blowers, etc.) has scheduled and/or unplanned downtime. Downtime refers to cessation of operation lasting 30 minutes or longer, according to the following:</u></p> <p><u>Downtime of 30 Minutes or Longer:</u></p> <p><u>Respondent shall provide the notification required by this Condition 82 for any individual control device that has downtime which is anticipated to last 30 minutes or more, or once any downtime for an individual control device reaches 30 minutes of downtime.</u></p> <p><u>If the downtime of any combination of landfill gas collection equipment results or is planned to result in a reduction of gas flow to control devices by 10% or more (compared to the gas flow prior to the downtime of the first device), Respondent shall provide the notification required by this Condition 82 for any such control devices that have downtime which is anticipated to last 30 minutes or more, or once any downtime for such devices reaches 30 minutes of downtime.</u></p> <p><u>This notification shall include an initial notification 24 hours prior to the planned shutdown event, unless the event is planned less than 24 hours before the planned downtime, Respondent shall provide the notification as soon as possible, within 1-hour of finalizing plans for the downtime. For unplanned downtime, notification shall occur within 1-hour of reasonable discovery of any control equipment issue resulting in unplanned downtime. Respondent shall also provide a subsequent additional notification and follow-up written report within 48 hours of startup and operation of the equipment after the downtime event is corrected. The initial notification, and subsequent notifications/follow-up report shall include the following items, unless otherwise noted below:</u></p> <p><u>a. Reason(s) for the downtime,</u></p> <p><u>b. Specification of whether the event was planned or unplanned event,</u></p> |

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| | <p><u>c. Estimated (initial notification) and actual (subsequent notification/follow-up report) start and end dates and times of the downtime event,</u></p> <p><u>d. Meteorological data (15-minute averaged), including wind direction(s) and wind speed(s), starting from 48 hours prior to the downtime event, and extending until 24 hours after associated equipment start-up and resumed operation during the period of downtime (subsequent notification/follow-up report only)</u></p> <p><u>e. Facility-wide minute by minute landfill gas flow data, in Microsoft Excel format, starting from 48 hours prior to the downtime event, and extending until 24 hours after associated equipment start-up and resumed operation. (subsequent notification/follow-up report only)</u></p> <p><u>The notifications specified in this condition are additional notifications and do not replace Title V and/or breakdown notifications required by South Coast AQMD or Federal Regulations, or by the Title V permit.</u></p> |
| (83) | <p><u>Respondent shall conduct a study and analysis of specific landfill operational events and their potential emission impacts to the surrounding community, as determined from an analysis of the air quality data recorded at monitoring stations MS-01 through MS-12. The study shall consider various landfill operational events which may result in increased release of emissions, including but not limited to, landfill excavations, downtime or decreased operation of any landfill gas collection or control equipment resulting in a reduction of landfill gas flow rate to an instantaneous value of a landfill-wide total of 11,000 scfm, or a reduction of 10% or more of current operational flows, and leachate exposure to atmosphere from spills/seeps/pressurized discharges. The 10% reduction in flow rate shall be determined based on total landfill gas flow rate data trends by comparing the current total landfill gas flow rate, averaged hourly, to the prior week's average landfill gas flow rate and the prior day's average landfill gas flowrate. A 10% reduction in comparison to the weekly or daily average value shall be analyzed as an operational event. The date, time, and duration of the operational events shall be used, in conjunction with meteorological data and air monitoring station data for all compounds monitored using continuous instrumentation, to the extent such data is available, to determine the effects at downwind receptors. This study shall be conducted for a period of 7 months, from June 1, 2024 through December 31, 2024, with a report detailing the landfill operational events, meteorological data, air monitoring station data, general findings of the study, and the landfill gas flow rate trend comparison used to determine a 10% reduction. The report shall be submitted by March 31, 2025 to South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov]. The report shall also include a proposed scope for a continuation of the study for up to an additional 6 months, subject to review and approval by SCAQMD. The continuation of the study shall proceed upon written approval by the South Coast AQMD.</u></p> |
| (84) | <p><u>Respondent shall evaluate the installation of windbreaks and/or wind flow disrupters along the western and northern borders of the facility, and/or ridgeline, such that there are not any distinguishable gaps in the border and/or ridgeline which may result in an odor channeling affect into the Val Verde community, to enhance the dispersion of odors from the facility. By no later than November 15, 2024, Respondent shall submit a report detailing the findings of the evaluation to South Coast AQMD (attn:</u></p> |

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| | <p><u>Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov). The report detailing the findings of the evaluation shall include the following:</u></p> <p><u>a. The viability and advantages and disadvantages of the different windbreaks and/or wind flow disruptors.</u></p> <p><u>b. The estimated duration and timeline of the steps necessary to implement and install each of the windbreaks and/or wind flow disruptors evaluated, including any regulatory approvals and any associated environmental analysis and public notification/outreach required, contractor procurement, contracts, bidding, contract execution, equipment procurement, and equipment installation.</u></p> <p><u>If installation of windbreaks and/or wind flow disruptors is deemed technically feasible and viable, Respondent shall complete the installation of windbreaks and/or wind flow disruptors. In the November 15, 2024 report, the Reaction Committee shall determine technical feasibility and provide recommendations to the South Coast AQMD regarding viability. Viability shall be determined by South Coast AQMD. If deemed technically feasible and viable, installation shall take place within 180 days after receipt of written approval by South Coast AQMD or 180 days after required regulatory approvals have been procured, whichever is later.</u></p> |
| (85) | <p><u>Respondent shall comply with the following requirements in addition to the requirements listed under Condition 42(a)-(x) while conducting the west slope excavation project:</u></p> <p><u>(a) Landfill perimeter odor control misters shall be operated along the west slope excavation area while excavation is conducted and while any waste, waste contaminated material, or odiferous material is exposed to atmosphere.</u></p> <p><u>(b) By September 3, 2024, a Semi-Permanent Vapor Odor Control System shall be operated along the west slope excavation area while excavation is conducted and while any waste, waste contaminated material, or odiferous material is exposed to atmosphere.</u></p> <p><u>(c) A weekly report shall be submitted to South Coast AQMD [Attention: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] each Tuesday by 8am PST reporting on the preceding week. The weekly report shall report the west slope excavation activities commenced, completed, and yet to be completed with estimated timeline and amount (in cubic yards) of soil/refuse to be excavated for completion. The report shall also identify any change in daily excavation schedules, obstacles or unexpected corrective actions that transpired. The first report shall be due on August 27, 2024.</u></p> |