Appendix F 2. Methane Report

July 21, 2017 Job # J3448

To: Amazon Properties, LLC 9440 S. Santa Monica Blvd., Suite 700 Beverly Hills, CA - 90210

Attn: Mr. Michael Soroudi



621 Via Alondra Suite 610 Camarillo, California 93012

> TEL: 805.987.5356 FAX: 805.987.3968

methanespecialists.com

Subj: Site Methane Investigation Report for:

8-story mixed use project, with 3 subterranean parking levels 676 S. Mateo Street, Los Angeles, CA – 90021

Methane Specialists is pleased to submit this report with the results of our subsurface methane investigation for the project mentioned above. The purpose of the investigation was to measure subsurface soil gas concentrations and pressures of methane at the subject site to determine site-specific methane mitigation requirements prescribed by the City of Los Angeles Department of Building and Safety (Division 71 of the Los Angeles Building Code). This investigation was conducted in accordance with our proposal dated July 19, 2017.

Project Information

The Project Site is on an approximately 44,800 square-foot parcel (1.03 acre), in the City of Los Angeles. The Project proposes the construction of a new "8-story mixed use project" to be built with "3 subterranean parking levels." Refusal was *met* in boring down to a minimum of approximately 37 feet, below surface grade, (bsg), at *deep* probesets DP-1, DP-2, and DP-3. *Actual* ground water was not *met* while drilling down to below a depth of at least 37 feet, bsg, at all three deep probe locations. A geotechnical report provided that the groundwater level was not met down to a depth of 50 feet below surface level. Therefore, the *historical* groundwater level is taken to be approximately greater than 50 feet, bsg. This would be approximately greater than 20 feet, below where an impermeable membrane *could* be required to be installed under the lowest parking level.

The site is within an area which the City of Los Angeles designates as a Methane Buffer Zone (Source: ZIMAS Parcel Profile Report (enclosed)).

City of Los Angeles Methane Requirements

Requirements for control of methane intrusion in the City of Los Angeles are specified in Division 71 of Article 1, Chapter IX of the Los Angeles Municipal Code ("Division 71"). Since the project is within the *Methane Buffer Zone*, the Los Angeles Department of Building and Safety (LADBS) has the authority to withhold permits for construction unless detailed plans for adequate protection against methane intrusion are submitted, if testing leads to methane mitigation being required.

The level of methane protection required depends upon the "design methane concentration," which is defined in Division 71 as "the highest concentration of methane gas found during site testing." Site testing is required to determine the design concentration, unless the developer accepts the most stringent methane mitigation requirements ("Level V"). If site testing is performed (e.g., to document that a lower level of mitigation is justified), then it must follow a protocol published by the Department of Building and Safety, "Site Testing Standards for Methane" (P/BC 2002-101, November 30, 2004).

P/BC 2002-101 prescribes a three-step process for methane evaluation:

- (1) Scheduling site testing either before or 30 days after any site grading;
- (2) Conducting shallow soil gas tests (not less than 4 feet, bsg); and
- (3) Installing and using multiple-depth gas probe sets where the highest concentrations of soil gases are expected to be found

For the first step, site testing was scheduled for July 20, and 21, 2017. Methane Specialists also notified Underground Service Alert of Southern California to mark the site for underground utilities, and the utilities were subsequently marked and cleared.

For the second step, P/BC 2002-101 requires one shallow sampling location for every 10,000 square feet, or portion thereof, of site area, with a minimum of two shallow soil gas probe locations. Since the parcel area is approximately 44,800 square feet, five (5) *shallow* sampling locations were required.

The third step in the City's methane evaluation process is to collect a minimum of two samples at multiple depths, and at least one multiple-depth probeset per every 20,000 square feet, or portion thereof. Thus, the minimum of three (3) multiple-depth *deep* gas probe sets were also required.

Shallow Soil Gas Probe Testing

City Guidelines require that one shallow-depth probe be installed for every 10,000 square feet of site area where the highest concentration of soil gas is most likely to be found, with a minimum of two shallow gas probes, regardless of the total area of the site. Since the total square footage of the parcel is approximately 44,800 square feet, Methane Specialists installed the required minimum of five (5) shallow methane probes at a depth of 4 feet bsg (see Probe Location Map).

The five shallow gas probes (SP-1 through SP-5) were drilled and installed, starting on July 20, 2017. Methane Specialists used a direct-push drill rig to hydraulically drive a 1.50-inch rod into the ground to a depth of approximately 4 feet, bsg. A $\frac{1}{4}$ " polyethylene probe was then inserted into the boreholes. Approximately six inches of sand was placed in the boreholes, above and below the probe, to provide a sampling area. Bentonite was then added to the top of each of the boreholes. A hydrated bentonite plug was then placed above the bentonite, in each borehole, to form a seal. Methane Specialists recorded all the readings.

Shallow probe site testing was conducted on July 20, and 21, 2017.

Multiple-Depth Gas Probe Set Testing

City Guidelines also require that one multiple-depth deep probe set be installed for every 20,000 square feet of site area where the highest concentration of soil gas is most likely to be found, with a minimum of two multiple-depth deep gas probe sets, regardless of the total area of the site. Since the total area of the site is approximately 44,800 square feet, Methane Specialists drilled and installed the required three (3) multiple-depth *deep* probesets (DP-1, DP-2 and DP-3), also starting on July 20, 2017.

The multiple-depth deep probes were also installed using direct-push drilling equipment in the same manner as were the shallow gas probes. The three deep probes were each installed as triple-well clusters, down to at least greater than 37 feet, bsg, where refusal was met. The ground water level was not encountered down to a depth greater than approximately 37 feet, bsg. In all cases, at each probe depth, approximately twelve inches of sand was placed in the borehole around each of the probes. Each sand layer, of each probe, was separated by a layer of bentonite, between the sampling elevations. A hydrated, bentonite, plug was then placed onto the top of each borehole to form a seal.

Multiple-depth probe site testing was similarly conducted on July 20, and 21, 2017.

Sampling and Analysis

For field data sampling and analysis, Methane Specialists measured these probes for methane with a RKI Eagle portable, gas-sampling meter. The lower limit for *reporting* methane levels with the RKI Eagle is 500 ppmv (parts per million by volume).

The RKI Eagle was calibrated against standard calibrant samples by trained Methane Specialists staff members.

The probe pressures were all measured with a Dwyer Magnehelic Differential Pressure Gauge with a minimum scale division of 0.1 inch of water (H₂O).

Results of Shallow Gas Probe and Multiple-Depth Gas Probe Analysis

The attached Form 1 shows the results of the analysis of both the shallow, *and* the multiple, depth deep probe sets.

Recommendations

In summary, for this project located in the *Methane Buffer Zone*, several measurable levels of methane were detected while testing at this site. However, Table 1B, for the *Methane Buffer Zone (enclosed)*, this project falls under Design Level *III*, with less than 2 inches of water-column gaspressure. Therefore, as per said Methane Code Table 1B, this project *requires no methane mitigation system*.

Disclaimer

All discussion in this report is based on information provided by the client, as well as data and conditions, as they existed at the time and date of testing at the site. Should any detail, or condition, change from that original information, then, re-consideration of the conclusions in this report could become justified. Methane Specialists cannot be held accountable for the consequences of relevant information which was not previously provided. Nor can Methane Specialists be held accountable for the consequences of changes in the project scope, or of project site conditions.

This report has been prepared for the sole use of the client, exclusively, for the completion of the subject project, alone. No other application, or interpretation, of this report is to be granted, or implied, or otherwise made, without first obtaining direct, written permission, exclusively from Methane Specialists.

Respectfully, Methane Specialists

& anisle

Kirby N. Arriola, P.E. (C-31416)

INDEX OF ENCLOSURES

PARCEL PROFILE REPORT

METHANE PROBE LOCATION MAP

TYPICAL METHANE PROBE SET DETAIL

FORM 1, PART 2 - TEST DATA

TABLE 1 – MITIGATION REQUIREMENTS

FORM 1, PART 1 - CERTIFIED RESULTS



PROPERTY ADDRESSES 676 S MATEO ST

ZIP CODES

90021

RECENT_ACTIVITY

None

CASE NUMBERS

CPC-2017-432-CPU CPC-2016-3689-GPA-ZC-HD-MCUP-DB-SPR CPC-2014-5000-CA-GPA CPC-2014-2415-GPA-CA CPC-2008-3417-GPA CPC-2008-3125-CA CPC-2007-3036-RIO CPC-2001-4642-CRA CPC-1997-423 CPC-1995-352-CPU CPC-1986-607-GPC ORD-183145 ORD-183144 ORD-164855-SA2190 VTT-74550 ENV-2017-433-EIR ENV-2016-3691-EAF ENV-2014-4000-MND ENV-2014-2416-MND ENV-2013-3392-CE ENV-2008-3611-ND ENV-2007-3037-ND ENV-1995-328-MND OB-14004

Department of City Planning 6/26/2017 PARCEL PROFILE REPORT

City of Los Angeles

Address/Legal Information PIN Number Lot/Parcel Area (Calculated) Thomas Brothers Grid Assessor Parcel No. (APN) Tract Map Reference Block Lot Arb (Lot Cut Reference) Map Sheet Jurisdictional Information **Community Plan Area** Area Planning Commission Neighborhood Council **Council District** Census Tract # LADBS District Office Planning and Zoning Information Special Notes Zoning Zoning Information (ZI) General Plan Land Use General Plan Footnote(s) Hillside Area (Zoning Code) Specific Plan Area Special Land Use / Zoning Design Review Board **Historic Preservation Review** Historic Preservation Overlay Zone Other Historic Designations Other Historic Survey Information Mills Act Contract CDO: Community Design Overlay CPIO: Community Plan Imp. Overlay District Subarea CUGU: Clean Up-Green Up NSO: Neighborhood Stabilization Overlay POD: Pedestrian Oriented Districts SN: Sign District Streetscape Adaptive Reuse Incentive Area None Ellis Act Property No

ř. 124-5A217 173 5,607.3 (sq ft) PAGE 634 - GRID H6 5164020021 WINGERTER TRACT M R 15-52 None 167 None 124-5A217 Central City North Central **Historic Cultural** CD 14 - Jose Huizar 2060.31 Los Angeles Metro 12 9 None M3-1-RIO ZI-2129 EAST LOS ANGELES STATE ENTERPRISE ZONE ZI-2358 River Improvement Overlay District ZI-2317 Central Industrial Redevelopment Project ZI-2452 Transit Priority Area in the City of Los Angeles Heavy Manufacturing Yes No None None No No None None None None None None None None None No None No Nο

This report is subject to the terms and conditions as set forth on the website. For more details, please refer to the terms and conditions at zimas.lacity.org (*) - APN Area is provided "as is" from the Los Angeles County's Public Works, Flood Control, Benefit Assessment.

| Rent Stabilization Ordinance (RSO) | No | | | | | |
|---|--|--|--|--|--|--|
| CRA - Community Redevelopment Agency | Central Industrial Redevelopment Project | | | | | |
| Central City Parking | Yes | | | | | |
| Downtown Parking | No | | | | | |
| Building Line | None | | | | | |
| 500 Ft School Zone | No | | | | | |
| 500 Ft Park Zone | No | | | | | |
| Assessor Information | | | | | | |
| Assessor Parcel No. (APN) | 5164020021 | | | | | |
| APN Area (Co. Public Works)* | 1.028 (ac) | | | | | |
| Use Code | 3100 - Industrial - Light Manufacturing - One Stor | | | | | |
| Assessed Land Val. | \$14,278,980 | | | | | |
| Assessed Improvement Val. | \$1,020 | | | | | |
| Last Owner Change | 05/17/2016 | | | | | |
| Last Sale Amount | \$14,000,140 | | | | | |
| Tax Rate Area | 15117 | | | | | |
| Deed Ref No. (City Clerk) | 972158 | | | | | |
| | 9-926 | | | | | |
| | 562084 | | | | | |
| | 511791 | | | | | |
| | 325745 | | | | | |
| | 2-300 | | | | | |
| | 1704612 | | | | | |
| | 1688064 | | | | | |
| | 154460 | | | | | |
| | 1404816 | | | | | |
| | 1356159 | | | | | |
| Building 1 | | | | | | |
| Year Built | 1978 | | | | | |
| Building Class | C558 | | | | | |
| Number of Units | 0 | | | | | |
| Number of Bedrooms | 0 | | | | | |
| Number of Bathrooms | 0 | | | | | |
| Building Square Footage | 26,880.0 (sq ft) | | | | | |
| Building 2 | No data for building 2 | | | | | |
| Building 3 | No data for building 3 | | | | | |
| Building 4 | No data for building 4 | | | | | |
| Building 5 | No data for building 5 | | | | | |
| Additional Information | | | | | | |
| Airport Hazard | None | | | | | |
| | None | | | | | |
| Farmland | Area Not Mapped | | | | | |
| Very High Fire Hazard Severity Zone | No | | | | | |
| Fire District No. 1 | No | | | | | |
| Flood Zone | None | | | | | |
| Watercourse | No | | | | | |
| Hazardous Waste / Border Zone Properties | Νο | | | | | |
| Methane Hazard Site | Methane Buffer Zone | | | | | |
| High Wind Velocity Areas | No | | | | | |
| Special Grading Area (BOE Basic Grid Map A- 13372) | No | | | | | |
| Oil Wells | None | | | | | |
| Seismic Hazards | | | | | | |
| Qersinic Hazarus | | | | | | |
| Active Fault Near-Source Zone | | | | | | |

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| Nearest Fault (Name) | Puente Hills Blind Thrust |
|--------------------------------------|--|
| Region | Los Angeles Blind Thrusts |
| Fault Type | В |
| Slip Rate (mm/year) | 0.7000000 |
| Slip Geometry | Reverse |
| Slip Type | Moderately / Poorly Constrained |
| Down Dip Width (km) | 19.0000000 |
| Rupture Top | 5.00000000 |
| Rupture Bottom | 13.0000000 |
| Dip Angle (degrees) | 25.00000000 |
| Maximum Magnitude | 7.10000000 |
| Alquist-Priolo Fault Zone | No |
| Landslide | Νο |
| Liquefaction | No |
| Preliminary Fault Rupture Study Area | No |
| Tsunami Inundation Zone | No |
| Economic Development Areas | |
| Business Improvement District | None |
| Promise Zone | None |
| Renewal Community | No |
| Revitalization Zone | Central City |
| State Enterprise Zone | EAST LOS ANGELES STATE ENTERPRISE ZONE |
| Targeted Neighborhood Initiative | None |
| Public Safety | |
| Police Information | |
| Bureau | Central |
| Division / Station | Central |
| Reporting District | 159 |
| Fire Information | |
| Bureau | Central |
| Batallion | 1 |
| District / Fire Station | 17 |
| Red Flag Restricted Parking | No |
| | |

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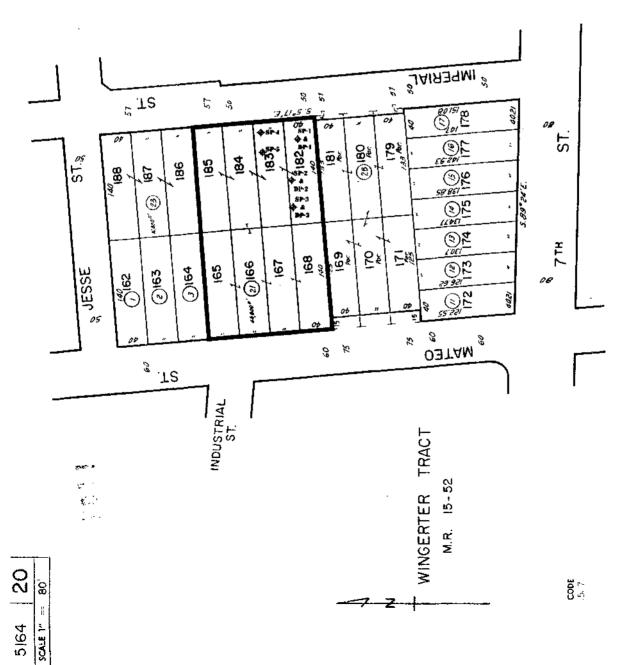
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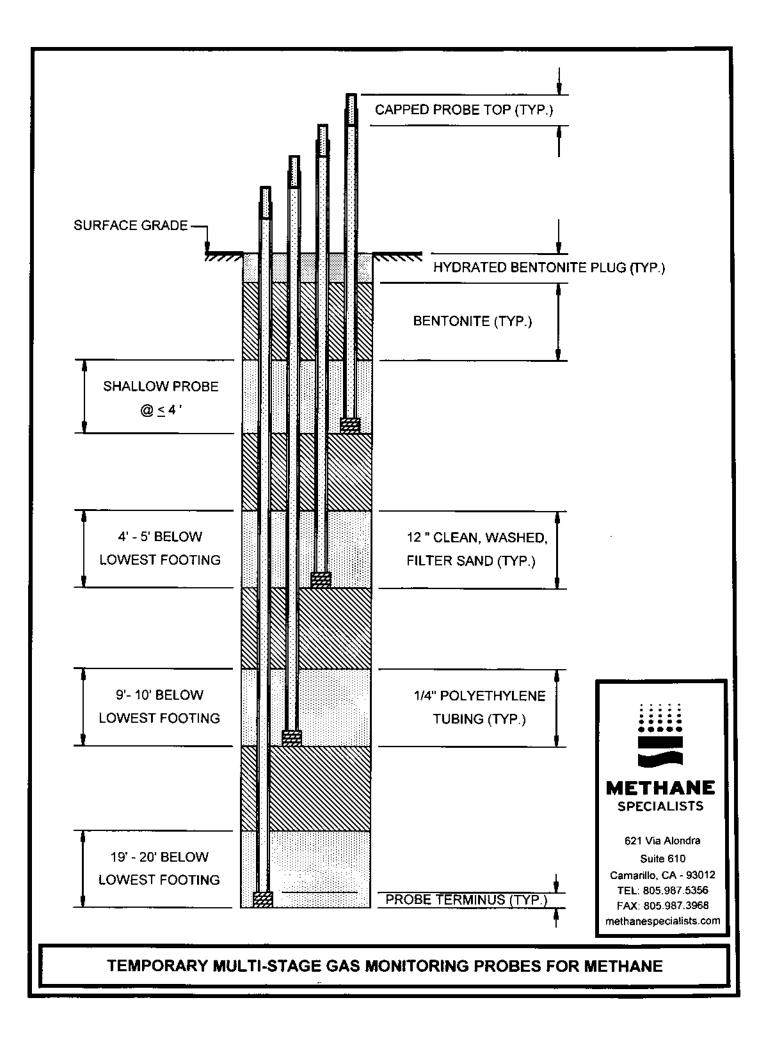
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J3448: 676 S. MATEO STREET,

LOS ANGELES, CA - 90021



ASSESSOR'S MAP COUNTY OF LOS ANGELES, CALIF.



| FORM 1 (CONTINU | - | | | | METH/ | ANE TEST DATA | P/BC 2002-101 |
|--|---------------------|--------------------|-----------------------|----------------|-----------------|--|---|
| Part 2: Test Data Site Address: | | | s Test and Ga | | 4 | | |
| Description of Gas A | | | | les, CA - 9002 | 1 | | Job # 3448 |
| nstrument Name ar City of Los Angeles | nd Model: | | | Eagle 10202 | Ins | trument Accuracy: 500 | _ ppm/v. _ Page <u>1</u> of <u>1</u> |
| | | | Stablized CH4 | Pressure | Probe | Descriptions / Commontor | |
| Date | Time | Probe Set # | Concentration | (inches of | Depth | Descriptions / Comments: no po · Refusal was met as shown b | |
| | | - 3 61# | (ppm/v) | water-column) | (feet) | •Groundwater was not met | |
| 7/20/2017 | | | | | | | |
| 7/20/2017 | <u>9:40</u> 9:35 | SP-1 DP-1 | < 500 500 | < 0.1 | 4 | · · · · · · · · · · · · · · · · · · · | |
| , , | 9:30 | DP-1 DP-1 | < 500 | < 0.1 < 0.1 | 5 10 | | |
| | 9:25 | DP-1 | < 500 | < 0.1 | 37 | <=Refusal met at grea | ter than 37' bsg |
| | | | | | | ······································ | |
| , | 10:35 | SP-2 | < 500 | < 0.1 | 4 | | |
| | 10:30 | $DP-\overline{2}$ | 1,000 | < 0.1 | 5 | · | |
| ·····,, | 10:25 11:20 | DP-2 DP-2 | < 500 <u>2,000</u> | < 0.1 < 0.1 | 10 | - May Sugar St- billing | J CILA Banding |
| | 11.20 | DP-2 | <u>2,000</u> | ₹0.1 | 40 | <= <u>Maximum Stabilize</u> | a c n 4 keaaing |
| | 11:25 | 5P.3 | < 500 | < 0.1 | 4 | | |
| - / / | 11:20 | DP-3 | 500 | < 0.1 | 5 | · · · · · · · · · · · · · · · · · · · | |
| | 11.15 | DP-3 | 500 | < 0.1 | 10 | | |
| | 11:10 | DP-3 | 1,500 | <u> </u> | 38 | <=Refusal met at grea | ter than 38' bsg |
| · · · · · · · · · · · · · · · · · · · | 12:15 | SP-4 | 500 | < 0.1 | 4 | · · · · · · · · · · · · · · · · · · · | |
| | 12.15 | 57.7 | 500 | <i>₹ 0.1</i> | | | |
| ,, | 12:25 | SP-5 | < 500 | < 0.1 | 4 | | · ••• |
| | | | | | | | |
| · · · · | | | | | - | · | |
| 7/21/2017 | 7:15 | SP-I | < 500 | < 0.1 | 4 | · · · · · · · · · · · · · · · · · · · | |
| ··· | 7:10 | DP-1 | < 500 | < 0.1 | - ' | | |
| ,, | 7:05 | DP-1 | < 500 | < 0.1 | 10 | | |
| | 7:00 | DP-1 | < 500 | < 0.1 | 37 | · · · · · · · · · · · · · · · · · · · | |
| ····· | 7:35 | SP-2 | < 500 | < 0.1 | | | |
| · · · · · · · · · · · · · · · · · · · | 7:30 | DP-2 | < 500 < 500 | < 0.1 < 0.1 | 4 | · | |
| -,, | 7:25 | DP-2 | < 500 | < 0.1 | 10 | | · |
| .,, | 7:20 | DP-2 | 1,500 | < 0.1 | 40 | | |
| | | | | | | | |
| | 7:55 | SP-3 | < 500 | < 0.1 | . 4 | | |
| | 7:50 | $DP \cdot 3$ | < 500 | < 0.1 | 5 | | |
| ···· , , | 7:45 | DP-3 DP-3 | 1,000 500 | < 0.1 < 0.1 | <u>10</u> 38 | | |
| | 1.10 | 01 5 | | . 0.2 | | | |
| ···· | 8:00 | 5P-4 | 500 | < 0.1 | 4 | ······································ | ····· |
| , | | | | | | | |
| | 8:05 | SP-5 | < 500 | < 0.1 | 4 | | |
| | + | | | — | | | · |
| | 1 1 | | | | | · · · · · | <u> </u> |
| · · · · · · · · · · · · · · · · · · · | | | | ł | | | |
| | | | | | | | |
| | + | | | | | | |
| | | | | | TEDED | | |
| | | | | | | · · · · · | |
| ATE: 7/20/2017 | | 8:30 | | | FUSAL? | • • • • • | ≥ 37 ft., bsg |
| ATE: 7/21/2017 | | 6:30 | | | | <pre>"< 500 ppmv" <=> "Non-Detec</pre> | |
| NTE: | | | INIT: | · | TESTER: | Ramon Camacho & Dave | Bell |

| TABL | .E 1B | - MITIGATION REQUIR | EME | NTS | FOR | MET | HANE | BU | FFER | R ZON | |
|---|---|---------------------------------------|---------|----------------|-------------|----------------|---|----------------|----------------|------------------|----------------|
| SITE DESIGN LEVEL | | | LEVEL | | LEVELII | | LEVEL 111 | | LEVEL IV | | LEVEL V |
| DESIGN METHANE CONCENTRATION (ppm/v) | | | 0 - 100 | | 101 - 1,000 | | 1,001 - 5,000 5,00 | | 5,001 - | 12,500 | >12,500 |
| DESIGN METHANE PRESSURE (inches of water column) | | <u><</u> 2" | >2" | | >2" | <u><</u> 2" | >2" | <u></u> 2" | >2" | ALL PRESSURES | |
| | DE-WATERING SYSTEM | | | x* | | x* | | x* | x* | x* | x* |
| M | PASSIVE SYSTEM SUB-SLAB VENT SYSTEM | PERFORATED HORIZONTAL PIPES | | x | | x | and the second se | x | x | x | x |
| SYSTE | | GRAVEL BLANKET UNDER MEMBRANE | | 2" | | 3" | and the second se | 3" | 2" | 4" | 4" |
| ASSIVE | | GRAVEL THICKNESS SURROUNDING PIPES | | 2" | | 3" | | 3" | 2" | 4" | 4" |
| Δ. | | VENT RISERS | | x ⁺ | | x ⁺ | | x ⁺ | x ⁺ | x ⁺ | x ⁺ |
| IMPERVIOUS MEMBRANE | | | х | | x | | x | x | x | x | |
| М | SUB-SLAB VENT SYSTEM | MECHANICAL EXTRACTION SYSTEM | | | | | | | | x ⁺ | x ⁺ |
| SYSTEN | SYSTEM UPIED TEM V | GAS DETECTION SYSTEM | | | | x | | x | x | x | x |
| ACTIVE | occ sys | MECHANICAL VENTILATION SYSTEM | | x | | x | and the second | x | x | x | x |
| ' | ACT LOWEST (SPACE | ALARM SYSTEM | | x | | х | | х | х | x | x |
| | CONTROL PANEL | | | x | | x | | x | x | x | x |
| FEM | | | | x | | x | | x | x | x | x |
| C. SYSTEM | CONDUIT OR CABLE SEAL FITTINGS | | | x | | x | | x | x | x | x |
| MISC. | | | | | | | | | | | x ⁺ |
| (=> | Required, as per the Methane Code of the City of Los Angeles. | | | | | | | | | | |

X => Required, as per the Methane Code of the City of Los Angeles.

★ => De-Watering not required when the maximum historical high groundwater table elevation, or projected post-construction groundwater level, is more than twelve inches below the bottom of the perforated horizontal pipes.

+ => Vent risers maximum spacing shall be less than, or equal to, 100 Linear Feet, measured between vent risers.

FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

| Part 1: Certification | n Sheet | |
|-----------------------|---|---|
| Site Address: 676 | 3 S. Mateo street, Los Angeles, CA - 90 | 0021 Job No. 3448 |
| Legal Description: | Tract: WINGERTER TH | RACT Lot(s): 165-8 & 182-5 Block: (un-numbered) |
| Building Use: new | w ' '8-story mixed use project' ' to be | built ' 'over 3 subterranean parking levels' ' |
| Name of Architect, | Engineer, or Geologist: | Architect's, Engineer's or Geologist's Stamp |
| | Kirby N. Arriola, P.E. | |
| Mailing Address: | | |
| _ | Methane Specialists | PROFESSIONAL |
| | 621 Via Alondra, # 610 | A COLORING COLORING |
| | Camarillo, CA - 93012 | |
| Telephone: | (805) 987-5356 | exe, 12-31-18 |
| Name of Testing La | aboratory: | |
| | Methane Specialists | of californit |
| City Test Lab Licer | nse #: 10202 | 1 - |
| Telephone: | (805) 987-5356 | |

hereby certify that I have tested the above site for the purposes of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2002-101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed hereon.

Carible Date: 21 Jul 2017 Signed:

Required Data:

- * Project is in the (Methane Zone) or (Methane Buffer Zone).
- * Depth of *Groundwater observed* during testing: <u>> 20 '</u> below the Impervious Membrane (at > 50' below surface) * Depth of *Historical High* Ground Water Table Elevation*: > 20 ' below the Impervious Membrane (at ~ 50' bsg) below the Impervious Membrane (at ~ 50' bsg)
- * Design Methane Concentration**: <u>2,000</u> parts per million in volume (ppm/v). (*i.e.:* 4% LEL) * Design Methane Pressure Value***: <<u>2,000</u> inches of water column.
- * Site Design Level: (Level 1, Level 11, Level 11, Level 14, Level 14) with < 2.0 inches of water column

Dewatering:

* Dewatering (is) (is not) required for methane mitigation per Section 91.7104.3.7. (subject to Final Geotech Report)

* Pump discharge rate not provided cubic feet per minute per reference geology or soil report:

dated

P/BC 2002-101

Additional Investigation:

* Additional Investigation (was) (was not) conducted. (by Methane Specialists)

Latest Grading on Site:

* Date of last grading on site (was) (was not) more than 30 days before Site Testing.

Notes:

- * Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water based on historical records and field investigations as determined by the engineer for the methane mitigation system.
- ** Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Probe Set on the site.
- *** Design Methane Pressure shall mean the highest total pressure measured for any Gas Probe Set on the site.