



REGISTRO DE

| | | |
|------------|----------------|----------------|
| Proyecto: | METRO DE QUITO | |
| Empresa | CLI | Frete de Traba |
| Equipo Md: | ALTAIR 5X | Certificacion |

| Tipo de Gas | Lunes | | | | | Pr. | Martes | | | | |
|---|-------|-------|------|------|------|------|--------|------|------|------|------|
| Oxigeno (O ₂) 19.5% < O ₂ < 23.5% | Hora | 20:00 | | | | | 02:30 | | | | |
| | Md. | 20.8 | 20.8 | 20.8 | 20.8 | 10.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| | Hora | 22:00 | | | | | 04:30 | | | | |
| | Md. | 20.8 | 20.8 | 20.8 | 20.8 | 10.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| | Hora | 02:30 | | | | | | | | | |
| | Md. | 20.8 | 20.8 | 20.8 | 20.8 | 10.8 | | | | | |
| Monoxido de Carbono (CO) 30ppm | Hora | 20:00 | | | | | 02:30 | | | | |
| | Md. | 3 | 4 | 6 | 8 | 5.25 | 6 | 5 | 7 | 9 | |
| | Hora | 22:00 | | | | | 04:30 | | | | |
| | Md. | 2 | 4 | 7 | 8 | 5.25 | 3 | 6 | 7 | 8 | |
| | Hora | 02:30 | | | | | | | | | |
| | Md. | 1 | 0 | 3 | 7 | 2.8 | | | | | |
| Sulfuro de Hidrogeno (H ₂ S) 20ppm | Hora | 20:00 | | | | | 02:30 | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Hora | 22:00 | | | | | 04:30 | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Hora | 02:30 | | | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | | | | | |
| LEL Metano (CH ₄) ≤ 15% | Hora | 20:00 | | | | | 02:30 | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Hora | 22:00 | | | | | 04:30 | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Hora | 02:30 | | | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | | | | | |
| Otro | Hora | | | | | | | | | | |
| | Md. | | | | | | | | | | |
| | Hora | | | | | | | | | | |
| | Md. | | | | | | | | | | |
| | Hora | | | | | | | | | | |
| | Md. | | | | | | | | | | |

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|---------------------|-------|------|
| Responsable de Area | Firma | |
| Juan Caceres | | FAUS |



REGISTRO DE DATOS PARA MEDICIONES DE GASES



DOC. REF: SC-CL1-ST-002-PR
 COD. REG: SC-CL1-ST-035-RC
 REVISION: 0
 EMISION: 23/03/2016

Proyecto: Construcción de la Primera línea del Metro de Quito Cliente: EPMQ
 Empresa: CL1 Frente de Trabajo: Inaquito Encargado: Wladimir Pilacuan Fecha: 10-04-2017
 Equipo Md: Altair SX Certificación: SI No F. de Calibración: 15-02-2017 Cad. Calibración: 13-06-2017

| Tipo de Gas | Lunes | | | Pr. | Martes | | | Pr. | Miércoles | | | Pr. | Jueves | | | Pr. | Viernes | | | Pr. | Sábado | | | Pr. | Domingo | | | Pr. | |
|---|-------|-------|------|------|--------|-------|------|------|-----------|-------|------|------|--------|-------|------|------|---------|------|------|------|--------|-------|------|------|---------|------|------|-----|--|
| Oxígeno (O ₂) 19.5% < O ₂ < 23.5% | Hora | 08:00 | | | | 08:05 | | | | 08:10 | | | | 08:00 | | | | | | | | 08:30 | | | | | | | |
| | Md. | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | | |
| | Hora | 11:45 | | | | 11:30 | | | | 11:50 | | | | 11:00 | | | | | | | | 11:10 | | | | | | | |
| | Md. | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | | |
| | Hora | 15:00 | | | | 15:00 | | | | 15:10 | | | | 15:30 | | | | | | | | 15:50 | | | | | | | |
| | Md. | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | | |
| Monóxido de Carbono (CO) 30ppm | Hora | 08:00 | | | | 08:05 | | | | 08:10 | | | | 08:00 | | | | | | | | 08:30 | | | | | | | |
| | Md. | 0 | 1 | 1 | 0 | 0.5 | 4 | 6 | 6 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Hora | 11:45 | | | | 11:30 | | | | 11:50 | | | | 11:00 | | | | | | | | 11:10 | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Hora | 15:00 | | | | 15:00 | | | | 15:10 | | | | 15:30 | | | | | | | | 15:50 | | | | | | | |
| | Md. | 2 | 4 | 4 | 2 | 2.8 | 3 | 3 | 1 | 2 | 2.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Sulfuro de Hidrogeno (H ₂ S) 20ppm | Hora | 08:00 | | | | 08:05 | | | | 08:10 | | | | 08:00 | | | | | | | | 08:30 | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Hora | 11:45 | | | | 11:30 | | | | 11:50 | | | | 11:00 | | | | | | | | 11:10 | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Hora | 15:00 | | | | 15:00 | | | | 15:10 | | | | 15:30 | | | | | | | | 15:50 | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| LEL Metano (CH ₄) ≤ 15% | Hora | 08:00 | | | | 08:05 | | | | 08:10 | | | | 08:00 | | | | | | | | 08:30 | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Hora | 11:45 | | | | 11:30 | | | | 11:50 | | | | 11:00 | | | | | | | | 11:10 | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Hora | 15:00 | | | | 15:00 | | | | 15:10 | | | | 15:30 | | | | | | | | 15:50 | | | | | | | |
| | Md. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Otro | Hora | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Md. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hora | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Md. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hora | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Md. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---------------------------|-------|--------------------------|-------|------------------------|-------|
| Responsable de Area | Firma | Encargado de Area | Firma | Tecnico de Seguridad | Firma |
| <u>Juan Jose Cascabos</u> | | <u>Wladimir Pilacuan</u> | | <u>Christian Bravo</u> | |