INTEGRATED
PERFORMANCE
CONSULTANTS

July 29th, 2021

Renee Purdy
Executive Officer II
California Regional Water Quality Control Board
Los Angeles Region

**Attention: Information Technology Unit**

Malibu Civic Center WTP — WDR: R4-2015-0051
2021 2nd Quarter Monitoring Report — MRP: CI-10042

**OVERVIEW**

Malibu Civic Center Wastewater Treatment Plant performed well all quarter, meeting all permit limits.

Flow and load returned to normal this quarter as COVID-19 most pandemic related business restrictions were lifted. This allowed us to suspend continuous MicroC addition for BOD replacement and NOx control and abandon the interim intermittent aeration method we adopted to suppress DO that would otherwise have inhibited denitrification.

**SUMMARY OF NON-COMPLIANCE**

There were no instances of non-compliance during this reporting period.

**INFLUENT & EFFLUENT MONITORING**

The results of influent and effluent monitoring are shown in Attachment A.

**WASTE HAULING**

40,000 gallons of thickened waste activated sludge were hauled off site from the MBT this quarter for biological process control. Additionally, 20,000 gallons of activated sludge was provided to Paradise Cove Land Company on May 6th to use as seed sludge to start up their new Membrane Bioreactor.

**GROUNDWATER AND SURFACE WATER MONITORING**

The results of groundwater and surface water monitoring are provided in the attached report compiled by Rincon Consultants.

All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this Monitoring Program. A copy of the ELAP certificate for Sierra Analytical and copies of the completed chain of custody forms are attached.

I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the 29th day of July, 2021, at Irvine, CA.

Sincerely,



Ric Vardel, IPC Inc.
Chief Plant Operator, License V-4457

Integrated Performance Consultants, Inc.
Contract Operator, LIcense CO-0083

## ATTACHMENT A: DAILY, WEEKLY, & MONTHLY INFLUENT & EFFLUENT DATA

| | INFLUENT | | | EFFLUENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAILY | WEEKLY | | DAILY | | | | | | | | | | | | | | | | WEEKLY | | | | | | | | | | MONTHLY | | | | | | | |
| | Q Total Influent | TSS | BOD | Q Total Effluent | Q Lower Reuse | Q Upper Reuse | Q Injection | Q Percolation | Turbidity Avg | Turbidity Max | Turbidity > 0.2 | UVT | UV Dose | pH | Total Coliform | Total Coliform | Fecal Coliform | Resid Cl2 | BOD | BOD Removal | TSS | TSS Removal | NOx-N | NO3-N | NO2-N | NH3-N | TKN | Organic-N | Total-N | Oil & Grease | Total-P | TDS | Sulfate | Chloride | Boron | MBAS |
| Units | *kgal* | *mg/L* | *mg/L* | *kgal* | *kgal* | *kgal* | *kgal* | *kgal* | *ntu* | *ntu* | *%* | *%* | *mJ/cm2* | *units* | *mpn* | *mpn* | *mpn* | *mg/L* | *mg/L* | *%* | *mg/L* | *%* | *mg/L* | *mg/L* | *mg/L* | *mpn* | *mg/L* | *mg/L* | *mg/L* | *mg/L* | *mg/L* | *mg/L* | *mg/L* | *mg/L* | *mg/L* | *mg/L* | *mg/L* |
| Limit 1 | 191 | | | 191 | | | | 50 | 0.2 | 0.5 | 5 | 65 | 80 | 6.5 | | 2.2 | | | 20 | 85 | 15 | 85 | 8 | 8 | 1 | | | | | 10 | | 2,000 | 500 | 500 | 2 | 0.5 |
| Limit 2 | | | | | | | | | | | | | | 8.5 | 23 | 7 day | | | 30 | | 40 | | | | | | | | | 15 | | | | | | |
| Limit 3 | | | | | | | | | | | | | | | 240 | med | | | 45 | | 45 | | | | | | | | | | | | | | | |
| 04/01/2021 | Thu | 65.8 | | | 48.8 | 0.0 | 25.6 | 23.2 | 0.0 | 0.03 | 0.03 | 0.00 | 76.4 | 192.9 | 7.5 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | 4.9 | 1.9 | 612 | 117 | 169 | 0.30 | 0.08 |
| 04/02/2021 | Fri | 55.9 | | | 54.5 | 0.0 | 0.3 | 54.3 | 0.0 | 0.03 | 0.03 | 0.00 | 77.5 | 198.7 | 7.4 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | | | | | | | | |
| 04/03/2021 | Sat | 55.6 | | | 54.1 | 0.0 | 0.3 | 53.8 | 0.0 | 0.03 | 0.03 | 0.00 | 77.3 | 199.8 | 7.7 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/04/2021 | Sun | 49.9 | | | 61.2 | 0.0 | 18.0 | 43.2 | 0.0 | 0.10 | 0.03 | 0.00 | 77.5 | 199.8 | 7.5 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/05/2021 | Mon | 47.7 | | | 31.7 | 0.0 | 20.0 | 11.6 | 0.0 | 0.03 | 0.10 | 0.01 | 76.4 | 199.4 | 7.4 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/06/2021 | Tue | 45.4 | 315 | 508 | 52.7 | 0.0 | 17.6 | 35.1 | 0.0 | 0.06 | 0.03 | 0.00 | 75.3 | 199.3 | 7.5 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/07/2021 | Wed | 49.4 | | | 31.7 | 0.0 | 18.3 | 13.4 | 0.0 | 0.03 | 0.06 | 0.00 | 74.4 | 199.8 | 7.3 | 1.79 | 1.79 | 1.79 | 0.049 | 4.0 | 99.2 | 0.9 | 99.7 | 0.1 | 0.1 | 0.05 | 0.09 | 1.03 | 0.94 | 1.13 | | | | | | | |
| 04/08/2021 | Thu | 59.4 | | | 55.8 | 0.0 | 18.3 | 37.5 | 0.0 | 0.03 | 0.03 | 0.00 | 74.3 | 196.4 | 7.5 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/09/2021 | Fri | 50.7 | | | 45.7 | 0.0 | 10.9 | 34.8 | 0.0 | 0.03 | 0.03 | 0.00 | 74.1 | 172.5 | 8.0 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/10/2021 | Sat | 55.3 | | | 47.2 | 0.0 | 0.3 | 47.0 | 0.0 | 0.03 | 0.03 | 0.00 | 72.1 | 169.7 | 7.9 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/11/2021 | Sun | 53.0 | | | 58.2 | 0.0 | 18.0 | 40.2 | 0.0 | 0.04 | 0.03 | 0.00 | 71.3 | 141.8 | 7.5 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/12/2021 | Mon | 47.6 | | | 39.6 | 0.0 | 10.5 | 29.0 | 0.0 | 0.03 | 0.04 | 0.01 | 72.6 | 135.1 | 7.2 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/13/2021 | Tue | 42.3 | 173 | 381 | 56.2 | 0.0 | 17.8 | 38.3 | 0.0 | 0.03 | 0.03 | 0.01 | 74.3 | 182.3 | 7.3 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/14/2021 | Wed | 42.4 | | | 29.2 | 0.0 | 9.0 | 20.2 | 0.0 | 0.03 | 0.03 | 0.00 | 73.0 | 183.3 | 7.3 | 1.79 | 1.79 | 1.79 | 0.050 | 3.0 | 99.2 | 0.9 | 99.5 | 0.1 | 0.1 | 0.05 | 0.09 | 1.18 | 1.09 | 1.30 | | | | | | | |
| 04/15/2021 | Thu | 45.7 | | | 44.9 | 0.0 | 18.2 | 26.7 | 0.0 | 0.03 | 0.03 | 0.00 | 71.9 | 166.3 | 7.6 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | | | | | | | | |
| 04/16/2021 | Fri | 49.3 | | | 36.9 | 0.0 | 8.7 | 28.2 | 0.0 | 0.03 | 0.03 | 0.00 | 70.6 | 152.7 | 6.8 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/17/2021 | Sat | 60.6 | | | 51.7 | 0.0 | 0.2 | 51.5 | 0.0 | 0.03 | 0.03 | 0.00 | 69.9 | 167.7 | 7.5 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/18/2021 | Sun | 59.9 | | | 64.2 | 0.0 | 18.0 | 46.3 | 0.0 | 0.04 | 0.03 | 0.00 | 69.8 | 156.0 | 7.6 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/19/2021 | Mon | 51.3 | | | 36.8 | 0.0 | 12.1 | 24.7 | 0.0 | 0.04 | 0.27 | 0.01 | 69.8 | 128.3 | 7.3 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | | | | | | | | |
| 04/20/2021 | Tue | 45.1 | 263 | 531 | 59.0 | 0.0 | 17.5 | 41.5 | 0.0 | 0.03 | 0.26 | 0.01 | 68.2 | 103.5 | 7.7 | 1.79 | 1.79 | 1.79 | 0.080 | | | | | | | | | | | | | | | | | | |
| 04/21/2021 | Wed | 53.8 | | | 33.7 | 0.0 | 18.1 | 15.5 | 0.0 | 0.04 | 0.18 | 0.00 | 69.9 | 104.6 | 7.6 | 1.79 | 1.79 | 1.79 | 0.240 | 3.0 | 99.4 | 0.9 | 99.7 | 0.1 | 0.0 | 0.05 | 0.11 | 0.69 | 0.58 | 0.79 | 4.9 | 1.9 | 612 | 117 | 169 | 0.30 | 0.08 |
| 04/22/2021 | Thu | 47.0 | | | 65.7 | 0.0 | 18.5 | 47.1 | 0.0 | 0.03 | 0.04 | 0.00 | 76.2 | 120.5 | 7.4 | 1.79 | 1.79 | 1.79 | 0.080 | | | | | | | | | | | | | | | | | | |
| 04/23/2021 | Fri | 48.3 | | | 35.1 | 0.0 | 15.4 | 19.7 | 0.0 | 0.03 | 0.04 | 0.00 | 75.5 | 145.6 | 7.5 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | | | | | | | | |
| 04/24/2021 | Sat | 53.0 | | | 45.9 | 0.0 | 0.2 | 45.7 | 0.0 | 0.03 | 0.03 | 0.00 | 75.3 | 126.6 | 7.4 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/25/2021 | Sun | 51.1 | | | 55.5 | 0.0 | 17.9 | 37.6 | 0.0 | 0.03 | 0.03 | 0.00 | 75.1 | 107.3 | 7.4 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/26/2021 | Mon | 45.4 | | | 36.3 | 0.0 | 11.1 | 25.2 | 0.0 | 0.08 | 0.04 | 0.00 | 75.2 | 106.4 | 7.6 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/27/2021 | Tue | 45.9 | 266 | 570 | 45.5 | 0.0 | 19.2 | 26.3 | 0.0 | 0.12 | 0.24 | 0.01 | 74.0 | 163.4 | 8.0 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| 04/28/2021 | Wed | 47.1 | | | 37.5 | 0.0 | 8.4 | 29.2 | 0.0 | 0.03 | 0.18 | 0.00 | 74.7 | 179.6 | 7.6 | 1.79 | 1.79 | 1.79 | 0.110 | 3.0 | 99.5 | 0.9 | 99.7 | 1.8 | 1.8 | 0.05 | 0.09 | 1.25 | 1.16 | 3.10 | | | | | | | |
| 04/29/2021 | Thu | 52.3 | | | 54.4 | 0.0 | 20.4 | 34.0 | 0.0 | 0.03 | 0.04 | 0.00 | 75.1 | 170.0 | 7.0 | 1.79 | 1.79 | 1.79 | 0.080 | | | | | | | | | | | | | | | | | | |
| 04/30/2021 | Fri | 53.9 | | | 44.6 | 0.0 | 15.8 | 14.4 | 0.0 | 0.03 | 0.04 | 0.00 | 74.1 | 151.5 | 6.9 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 1,530 | | | 1,414 | 0 | 404 | 995 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 65.8 | 315 | 570 | 65.7 | 0.0 | 25.6 | 54.3 | 0.0 | 0.12 | 0.27 | 0.01 | 77.5 | 199.8 | 8.0 | 1.79 | 1.79 | 1.79 | 0.240 | 4.0 | 99.5 | 0.9 | 99.7 | 1.8 | 1.8 | 0.05 | 0.11 | 1.25 | 1.16 | 3.10 | 4.9 | 1.9 | 612 | 117 | 169 | 0.30 | 0.08 |
| AVG | 51.0 | 254 | 498 | 47.1 | 0.0 | 13.5 | 33.2 | 0.0 | 0.04 | 0.07 | 0.00 | 73.7 | 160.7 | 7.5 | 1.79 | 1.79 | 1.79 | 0.062 | 3.3 | 99.3 | 0.9 | 99.6 | 0.5 | 0.5 | 0.05 | 0.10 | 1.04 | 0.94 | 1.58 | 4.9 | 1.9 | 612 | 117 | 169 | 0.30 | 0.08 |
| MIN | 42.3 | 173 | 381 | 29.2 | 0.0 | 0.2 | 11.6 | 0.0 | 0.03 | 0.03 | 0.00 | 68.2 | 103.5 | 6.8 | 1.79 | 1.79 | 1.79 | 0.049 | 3.0 | 99.2 | 0.9 | 99.5 | 0.1 | 0.0 | 0.05 | 0.09 | 0.69 | 0.58 | 0.79 | 4.9 | 1.9 | 612 | 117 | 169 | 0.30 | 0.08 |

ATTACHMENT A: DAILY, WEEKLY, & MONTHLY INFLUENT & EFFLUENT DATA

| | | INFLUENT | | | EFFLUENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DAILY | WEEKLY | | DAILY | | | | | | | | | | | | | | | WEEKLY | | | | | | | | | | | MONTHLY | | | | | | | |
| | | Q Total Influent | TSS | BOD | Q Total Effluent | Q Lower Reuse | Q Upper Reuse | Q Injection | Q Percolation | Turbidity Avg | Turbidity Max | Turbidity > 0.2 | UVT | UV Dose | pH | Total Coliform | Total Coliform | Fecal Coliform | Resid Cl2 | BOD | BOD Removal | TSS | TSS Removal | NOx-N | NO3-N | NO2-N | NH3-N | TKN | Organic-N | Total-N | Oil & Grease | Total-P | TDS | Sulfate | Chloride | Boron | MBAS |
| Units | | kgal | mg/L | mg/L | kgal | kgal | kgal | kgal | kgal | ntu | ntu | % | % | mJ/cm2 | units | mpn | mpn | mpn | mg/L | mg/L | % | mg/L | % | mg/L | mg/L | mg/L | mpn | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| Limit 1 | | 191 | | | 191 | | | | 50 | 0.2 | 0.5 | 5 | 65 | 80 | 6.5 | | 2.2 | | | 20 | 85 | 15 | 85 | 8 | 8 | 1 | | | | | 10 | | 2,000 | 500 | 500 | 2 | 0.5 |
| Limit 2 | | | | | | | | | | | | | | | 8.5 | 23 | 7 day | | | 30 | | 40 | | | | | | | | | 15 | | | | | | |
| Limit 3 | | | | | | | | | | | | | | | | 240 | med | | | 45 | | 45 | | | | | | | | | | | | | | | |
| 05/01/2021 | Sat | 54.5 | | | 266.8 | 0.0 | 215.0 | 51.8 | 0.0 | 0.03 | 0.03 | 0.00 | 73.1 | 129.9 | 7.4 | 1.79 | 1.79 | 1.79 | 0.070 | | | | | | | | | | | | | | | | | | | |
| 05/02/2021 | Sun | 51.7 | | | 59.3 | 0.0 | 17.6 | 41.7 | 0.0 | 0.05 | 0.29 | 0.06 | 72.5 | 117.5 | 7.3 | 1.79 | 1.79 | 1.79 | 0.150 | | | | | | | | | | | | | | | | | | | |
| 05/03/2021 | Mon | 58.4 | | | 41.2 | 0.0 | 21.6 | 19.6 | 0.0 | 0.07 | 0.29 | 0.01 | 72.5 | 115.6 | 7.5 | 1.79 | 1.79 | 1.79 | 0.070 | | | | | | | | | | | | | | | | | | | |
| 05/04/2021 | Tue | 46.5 | 453 | 170 | 62.1 | 0.0 | 18.0 | 44.1 | 0.0 | 0.05 | 0.26 | 0.01 | 78.5 | 128.4 | 7.5 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | | |
| 05/05/2021 | Wed | 47.7 | | | 22.3 | 0.0 | 22.2 | 0.1 | 0.0 | 0.03 | 0.13 | 0.00 | 78.2 | 122.3 | 7.5 | 1.79 | 1.79 | 1.79 | 0.060 | 3.0 | 98.2 | 0.9 | 99.8 | 0.4 | 0.3 | 0.05 | 0.09 | 1.15 | 1.06 | 1.52 | | | | | | | | |
| 05/06/2021 | Thu | 49.2 | | | 42.4 | 0.0 | 19.0 | 23.4 | 0.0 | 0.09 | 0.22 | 0.01 | 77.5 | 139.9 | 7.5 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | | | | | | | | | |
| 05/07/2021 | Fri | 52.9 | | | 41.0 | 0.0 | 18.4 | 22.6 | 0.0 | 0.04 | 0.11 | 0.00 | 78.5 | 121.7 | 7.5 | 1.79 | 1.79 | 1.79 | 0.120 | | | | | | | | | | | | | | | | | | | |
| 05/08/2021 | Sat | 61.4 | | | 54.6 | 0.0 | 5.6 | 49.0 | 0.0 | 0.07 | 0.14 | 0.00 | 78.3 | 143.0 | 7.4 | 1.79 | 1.79 | 1.79 | 0.100 | | | | | | | | | | | | | | | | | | | |
| 05/09/2021 | Sun | 58.1 | | | 64.4 | 0.0 | 17.8 | 46.6 | 0.0 | 0.13 | 0.22 | 0.01 | 78.1 | 133.5 | 7.9 | 1.79 | 1.79 | 1.79 | 0.160 | | | | | | | | | | | | | | | | | | | |
| 05/10/2021 | Mon | 45.2 | | | 43.6 | 0.0 | 15.9 | 27.7 | 0.0 | 0.06 | 0.22 | 0.00 | 78.1 | 116.7 | 7.7 | 1.79 | 1.79 | 1.79 | 0.090 | | | | | | | | | | | | | | | | | | | |
| 05/11/2021 | Tue | 42.3 | 262 | 530 | 48.3 | 0.0 | 23.5 | 24.8 | 0.0 | 0.06 | 0.22 | 0.01 | 77.4 | 125.7 | 7.6 | 1.79 | 1.79 | 1.79 | 0.070 | | | | | | | | | | | | | | | | | | | |
| 05/12/2021 | Wed | 47.8 | | | 31.8 | 0.0 | 17.8 | 14.0 | 0.0 | 0.06 | 0.13 | 0.00 | 75.7 | 123.4 | 8.0 | 1.79 | 1.79 | 1.79 | 0.110 | 3.0 | 99.4 | 0.9 | 99.7 | 1.6 | 1.6 | 0.05 | 0.09 | 0.69 | 0.60 | 2.32 | | | | | | | | |
| 05/13/2021 | Thu | 59.8 | | | 56.0 | 0.0 | 19.4 | 36.6 | 0.0 | 0.07 | 0.32 | 0.02 | 75.1 | 109.2 | 7.7 | 1.79 | 1.79 | 1.79 | 0.120 | | | | | | | | | | | | | | | | | | | |
| 05/14/2021 | Fri | 57.8 | | | 50.3 | 0.0 | 11.7 | 38.6 | 0.0 | 0.05 | 0.20 | 0.00 | 74.9 | 114.2 | 8.1 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | | |
| 05/15/2021 | Sat | 64.5 | | | 527.2 | 0.0 | 475.0 | 52.2 | 0.0 | 0.03 | 0.03 | 0.00 | 77.9 | 113.0 | 7.5 | 1.79 | 1.79 | 1.79 | 0.100 | | | | | | | | | | | | | | | | | | | |
| 05/16/2021 | Sun | 57.6 | | | 65.2 | 0.0 | 18.1 | 47.1 | 0.0 | 0.03 | 0.04 | 0.00 | 78.9 | 122.5 | 7.5 | 1.79 | 1.79 | 1.79 | 0.180 | | | | | | | | | | | | | | | | | | | |
| 05/17/2021 | Mon | 51.6 | | | 38.2 | 0.0 | 13.8 | 24.4 | 0.0 | 0.02 | 0.22 | 0.01 | 78.6 | 114.9 | 7.0 | 1.79 | 1.79 | 1.79 | 0.190 | | | | | | | | | | | | | | | | | | | |
| 05/18/2021 | Tue | 52.9 | 248 | 435 | 61.9 | 0.0 | 24.3 | 37.6 | 0.0 | 0.03 | 0.07 | 0.00 | 76.3 | 134.1 | 6.8 | 1.79 | 1.79 | 1.79 | 0.130 | | | | | | | | | | | | | | | | | | | |
| 05/19/2021 | Wed | 64.0 | | | 49.3 | 0.0 | 12.6 | 36.7 | 0.0 | 0.17 | 0.35 | 0.02 | 75.1 | 147.2 | 7.2 | 1.79 | 1.79 | 1.79 | 0.100 | 3.0 | 99.3 | 0.9 | 99.6 | 1.8 | 1.8 | 0.05 | 0.09 | 0.67 | 0.58 | 2.49 | | | | | | | | |
| 05/20/2021 | Thu | 59.0 | | | 73.9 | 0.0 | 23.4 | 50.5 | 0.0 | 0.03 | 0.04 | 0.00 | 77.7 | 176.4 | 7.2 | 1.79 | 1.79 | 1.79 | 0.160 | | | | | | | | | | | | | | | | | | | |
| 05/21/2021 | Fri | 60.7 | | | 39.0 | 0.0 | 11.0 | 28.0 | 0.0 | 0.03 | 0.03 | 0.00 | 79.4 | 140.3 | 7.2 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | | |
| 05/22/2021 | Sat | 66.4 | | | 264.3 | 0.0 | 208.0 | 56.3 | 0.0 | 0.03 | 0.03 | 0.00 | 77.8 | 104.9 | 7.5 | 1.79 | 1.79 | 1.79 | 0.210 | | | | | | | | | | | | | | | | | | | |
| 05/23/2021 | Sun | 61.4 | | | 70.0 | 0.0 | 17.8 | 52.2 | 0.0 | 0.03 | 0.09 | 0.00 | 76.0 | 92.1 | 7.8 | 1.79 | 1.79 | 1.79 | 0.280 | | | | | | | | | | | | | | | | | | | |
| 05/24/2021 | Mon | 55.4 | | | 42.8 | 0.0 | 13.6 | 29.2 | 0.0 | 0.07 | 0.23 | 0.01 | 76.4 | 109.0 | 7.1 | 1.79 | 1.79 | 1.79 | 0.140 | | | | | | | | | | | | | | | | | | | |
| 05/25/2021 | Tue | 48.9 | 200 | 525 | 63.1 | 0.0 | 28.5 | 34.6 | 0.0 | 0.05 | 0.28 | 0.01 | 78.5 | 120.0 | 7.6 | 1.79 | 1.79 | 1.79 | 0.090 | | | | | | | | | | | | | | | | | | | |
| 05/26/2021 | Wed | 65.2 | | | 46.8 | 0.0 | 19.7 | 27.1 | 0.0 | 0.03 | 0.27 | 0.01 | 76.4 | 152.7 | 7.6 | 1.79 | 1.79 | 1.79 | 0.060 | 2.0 | 99.6 | 0.9 | 99.6 | 0.5 | 0.5 | 0.05 | 0.18 | 0.67 | 0.49 | 1.17 | | | | | | | | |
| 05/27/2021 | Thu | 51.8 | | | 59.2 | 0.0 | 17.8 | 41.4 | 0.0 | 0.03 | 0.33 | 0.02 | 75.6 | 124.6 | 7.6 | 1.79 | 1.79 | 1.79 | 0.070 | | | | | | | | | | | | | | | | | | | |
| 05/28/2021 | Fri | 70.7 | | | 41.8 | 0.0 | 17.5 | 24.3 | 0.0 | 0.04 | 0.06 | 0.00 | 73.7 | 130.3 | 7.4 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | | | | | | | | | |
| 05/29/2021 | Sat | 58.0 | | | 62.9 | 0.0 | 0.2 | 62.7 | 0.0 | 0.03 | 0.06 | 0.00 | 73.1 | 131.6 | 7.4 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | | |
| 05/30/2021 | Sun | 58.6 | | | 51.5 | 0.0 | 17.6 | 33.9 | 0.0 | 0.08 | 0.18 | 0.00 | 72.2 | 143.9 | 7.2 | 1.79 | 1.79 | 1.79 | 0.130 | | | | | | | | | | | | | | | | | | | |
| 05/31/2021 | Mon | 56.4 | | | 38.6 | 0.0 | 13.2 | 25.4 | 0.0 | 0.06 | 0.28 | 0.01 | 73.0 | 137.3 | 7.2 | 1.79 | 1.79 | 1.79 | 0.050 | | | | | | | | | | | | | | | | | | | |
| TOTAL | | 1,736 | | | 2,480 | 0 | 1,376 | 1,104 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | | 70.7 | 453 | 530 | 527.2 | 0.0 | 475.0 | 62.7 | 0.0 | 0.17 | 0.35 | 0.06 | 79.4 | 176.4 | 8.1 | 1.79 | 1.79 | 1.79 | 0.280 | 3.0 | 99.6 | 0.9 | 99.8 | 1.8 | 1.8 | 0.05 | 0.18 | 1.15 | 1.06 | 2.49 | 4.9 | 0.8 | 672 | 107 | 178 | 0.29 | 0.21 |
| AVG | | 56.0 | 291 | 415 | 80.0 | 0.0 | 44.4 | 35.6 | 0.0 | 0.05 | 0.17 | 0.01 | 76.3 | 127.0 | 7.5 | 1.79 | 1.79 | 1.79 | 0.107 | 2.8 | 99.1 | 0.9 | 99.7 | 1.1 | 1.0 | 0.05 | 0.11 | 0.80 | 0.68 | 1.87 | 4.9 | 0.8 | 672 | 107 | 178 | 0.29 | 0.21 |
| MIN | | 42.3 | 200 | 170 | 22.3 | 0.0 | 0.2 | 0.1 | 0.0 | 0.02 | 0.03 | 0.00 | 72.2 | 92.1 | 6.8 | 1.79 | 1.79 | 1.79 | 0.049 | 2.0 | 98.2 | 0.9 | 99.6 | 0.4 | 0.3 | 0.05 | 0.09 | 0.67 | 0.49 | 1.17 | 4.9 | 0.8 | 672 | 107 | 178 | 0.29 | 0.21 |

ATTACHMENT A: DAILY, WEEKLY, & MONTHLY INFLUENT & EFFLUENT DATA

| | | INFLUENT | | | EFFLUENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DAILY | WEEKLY | | DAILY | | | | | | | | | | | | | | | | WEEKLY | | | | | | | | | | | MONTHLY | | | | | | | |
| | | Q Total Influent | TSS | BOD | Q Total Effluent | Q Lower Reuse | Q Upper Reuse | Q Injection | Q Percolation | Turbidity Avg | Turbidity Max | Turbidity > 0.2 | UVT | UV Dose | pH | Total Coliform | Total Coliform | Fecal Coliform | Resid Cl2 | BOD | BOD Removal | TSS | TSS Removal | NOx-N | NO3-N | NO2-N | NH3-N | TKN | Organic-N | Total-N | Oil & Grease | Total-P | TDS | Sulfate | Chloride | Boron | MBAS |
| | Units | kgal | mg/L | mg/L | kgal | kgal | kgal | kgal | kgal | ntu | ntu | % | % | mJ/cm2 | units | mpn | mpn | mpn | mg/L | mg/L | % | mg/L | % | mg/L | mg/L | mg/L | mpn | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| | Limit 1 | 191 | | | 191 | | | | 50 | 0.2 | 0.5 | 5 | 65 | 80 | 6.5 | | 2.2 | | | 20 | 85 | 15 | 85 | 8 | 8 | 1 | | | | | 10 | | 2,000 | 500 | 500 | 2 | 0.5 |
| | Limit 2 | | | | | | | | | | | | | | 8.5 | 23 | 7 day | | | 30 | | 40 | | | | | | | | | 15 | | | | | | | |
| | Limit 3 | | | | | | | | | | | | | | | 240 | med | | | 45 | | 45 | | | | | | | | | | | | | | | | |
| 06/01/2021 | Tue | 50.0 | 114 | 573 | 59.5 | 0.0 | 23.9 | 35.6 | 0.0 | 0.05 | 0.29 | 0.02 | 74.7 | 136.4 | 7.8 | 1.79 | 1.79 | 1.79 | 0.090 | | | | | | | | | | | | | | | | | | | |
| 06/02/2021 | Wed | 50.2 | | | 40.3 | 0.0 | 11.1 | 29.2 | 0.0 | 0.03 | 0.03 | 0.00 | 73.5 | 131.9 | 7.7 | 1.79 | 1.79 | 1.79 | 0.080 | 3.0 | 99.5 | 0.9 | 99.2 | 0.2 | 0.2 | 0.05 | 0.09 | 0.65 | 0.56 | 0.86 | | | | | | | | |
| 06/03/2021 | Thu | 60.2 | | | 59.2 | 0.0 | 20.3 | 38.9 | 0.0 | 0.03 | 0.04 | 0.00 | 72.8 | 110.0 | 7.6 | 1.79 | 1.79 | 1.79 | 0.170 | | | | | | | | | | | | | | | | | | | |
| 06/04/2021 | Fri | 53.4 | | | 41.2 | 0.0 | 6.2 | 35.0 | 0.0 | 0.03 | 0.03 | 0.00 | 72.8 | 117.6 | 7.4 | 1.79 | 1.79 | 1.79 | 0.140 | | | | | | | | | | | | | | | | | | | |
| 06/05/2021 | Sat | 56.5 | | | 43.8 | 0.0 | 6.3 | 37.5 | 0.0 | 0.03 | 0.05 | 0.00 | 73.8 | 119.9 | 7.6 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | | |
| 06/06/2021 | Sun | 56.5 | | | 56.6 | 0.0 | 17.4 | 39.2 | 0.0 | 0.03 | 0.12 | 0.00 | 73.8 | 113.9 | 7.2 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | | |
| 06/07/2021 | Mon | 47.5 | | | 39.4 | 0.0 | 8.9 | 30.5 | 0.0 | 0.06 | 0.23 | 0.01 | 74.0 | 109.7 | 6.9 | 1.79 | 1.79 | 1.79 | 0.180 | | | | | | | | | | | | | | | | | | | |
| 06/08/2021 | Tue | 53.4 | 241 | 365 | 43.4 | 0.0 | 18.9 | 24.5 | 0.0 | 0.27 | 0.27 | 0.03 | 73.6 | 136.7 | 6.8 | 1.79 | 1.79 | 1.79 | 0.060 | | | | | | | | | | | | | | | | | | | |
| 06/09/2021 | Wed | 49.8 | | | 47.2 | 0.0 | 9.9 | 37.3 | 0.0 | 0.03 | 0.17 | 0.00 | 73.5 | 127.5 | 7.5 | 1.79 | 1.79 | 1.79 | 0.090 | 8.0 | 97.8 | 0.9 | 99.6 | 0.7 | 0.6 | 0.05 | 0.09 | 0.23 | 0.14 | 0.90 | | | | | | | | |
| 06/10/2021 | Thu | 53.6 | | | 62.0 | 0.0 | 25.3 | 36.7 | 0.0 | 0.03 | 0.04 | 0.00 | 76.8 | 127.1 | 7.0 | 1.79 | 1.79 | 1.79 | 0.100 | | | | | | | | | | | | | | | | | | | |
| 06/11/2021 | Fri | 69.3 | | | 48.5 | 0.0 | 15.3 | 33.2 | 0.0 | 0.03 | 0.04 | 0.00 | 77.2 | 133.8 | 7.4 | 1.79 | 1.79 | 1.79 | 0.180 | | | | | | | | | | | | | | | | 4.9 | 2.4 | 708 | 105 | 177 | 0.33 | 0.31 |
| 06/12/2021 | Sat | 58.5 | | | 57.8 | 0.0 | 0.3 | 57.5 | 0.0 | 0.03 | 0.04 | 0.00 | 77.7 | 119.9 | 7.5 | 1.79 | 1.79 | 1.79 | 0.100 | | | | | | | | | | | | | | | | | | | |
| 06/13/2021 | Sun | 63.7 | | | 65.0 | 0.0 | 18.8 | 46.2 | 0.0 | 0.03 | 0.04 | 0.00 | 77.7 | 112.9 | 7.2 | 1.79 | 1.79 | 1.79 | 0.110 | | | | | | | | | | | | | | | | | | | |
| 06/14/2021 | Mon | 53.8 | | | 41.9 | 0.0 | 18.7 | 23.2 | 0.0 | 0.06 | 0.29 | 0.04 | 78.7 | 115.9 | 6.7 | 1.79 | 1.79 | 1.79 | 0.100 | | | | | | | | | | | | | | | | | | | |
| 06/15/2021 | Tue | 54.4 | 300 | 413 | 60.3 | 0.0 | 26.4 | 33.9 | 0.0 | 0.03 | 0.27 | 0.02 | 79.4 | 127.4 | 7.6 | 1.79 | 1.79 | 1.79 | 0.080 | | | | | | | | | | | | | | | | | | | |
| 06/16/2021 | Wed | 52.6 | | | 39.0 | 0.0 | 22.7 | 16.3 | 0.0 | 0.03 | 0.03 | 0.00 | 78.4 | 104.0 | 7.6 | 1.79 | 1.79 | 1.79 | 0.320 | 3.0 | 99.3 | 1.0 | 99.7 | 1.3 | 1.2 | 0.05 | 0.09 | 1.09 | 1.00 | 2.38 | | | | | | | | |
| 06/17/2021 | Thu | 73.6 | | | 61.5 | 0.0 | 18.4 | 43.1 | 0.0 | 0.03 | 0.21 | 0.01 | 77.2 | 115.3 | 7.6 | 1.79 | 1.79 | 1.79 | 0.050 | | | | | | | | | | | | | | | | | | | |
| 06/18/2021 | Fri | 59.2 | | | 62.9 | 0.0 | 22.8 | 40.1 | 0.0 | 0.03 | 0.03 | 0.00 | 78.2 | 107.5 | 7.5 | 1.79 | 1.79 | 1.79 | 0.270 | | | | | | | | | | | | | | | | | | | |
| 06/19/2021 | Sat | 61.3 | | | 55.4 | 0.0 | 0.2 | 55.2 | 0.0 | 0.03 | 0.03 | 0.00 | 77.3 | 98.1 | 7.5 | 1.79 | 1.79 | 1.79 | 0.200 | | | | | | | | | | | | | | | | | | | |
| 06/20/2021 | Sun | 64.1 | | | 66.8 | 0.0 | 21.0 | 45.8 | 0.0 | 0.03 | 0.03 | 0.00 | 76.7 | 108.6 | 7.0 | 1.79 | 1.79 | 1.79 | 0.180 | | | | | | | | | | | | | | | | | | | |
| 06/21/2021 | Mon | 55.2 | | | 49.2 | 0.0 | 14.5 | 34.7 | 0.0 | 0.03 | 0.24 | 0.01 | 75.6 | 112.9 | 7.4 | 1.79 | 1.79 | 1.79 | 0.130 | | | | | | | | | | | | | | | | | | | |
| 06/22/2021 | Tue | 52.9 | 304 | 614 | 57.9 | 0.0 | 17.7 | 40.2 | 0.0 | 0.03 | 0.24 | 0.01 | 74.8 | 108.7 | 7.3 | 1.79 | 1.79 | 1.79 | 0.120 | | | | | | | | | | | | | | | | | | | |
| 06/23/2021 | Wed | 53.2 | | | 37.0 | 0.0 | 17.3 | 19.7 | 0.0 | 0.03 | 0.03 | 0.00 | 75.0 | 112.3 | 7.6 | 1.79 | 1.79 | 1.79 | 0.130 | 3.0 | 99.5 | 0.9 | 99.7 | 0.9 | 0.9 | 0.05 | 0.09 | 0.37 | 0.28 | 1.28 | | | | | | | | |
| 06/24/2021 | Thu | 65.6 | | | 67.8 | 0.0 | 18.7 | 49.1 | 0.0 | 0.03 | 0.03 | 0.00 | 78.5 | 112.7 | 7.5 | 1.79 | 1.79 | 1.79 | 0.120 | | | | | | | | | | | | | | | | | | | |
| 06/25/2021 | Fri | 58.6 | | | 45.0 | 0.0 | 12.2 | 32.8 | 0.0 | 0.03 | 0.04 | 0.00 | 79.5 | 114.8 | 7.7 | 1.79 | 1.79 | 1.79 | 0.160 | | | | | | | | | | | | | | | | | | | |
| 06/26/2021 | Sat | 64.1 | | | 49.2 | 0.0 | 4.3 | 44.9 | 0.0 | 0.03 | 0.03 | 0.00 | 79.5 | 134.8 | 7.5 | 1.79 | 1.79 | 1.79 | 0.090 | | | | | | | | | | | | | | | | | | | |
| 06/27/2021 | Sun | 61.4 | | | 56.2 | 0.0 | 17.8 | 38.4 | 0.0 | 0.03 | 0.03 | 0.00 | 79.8 | 146.4 | 7.2 | 1.79 | 1.79 | 1.79 | 0.049 | | | | | | | | | | | | | | | | | | | |
| 06/28/2021 | Mon | 54.7 | | | 51.4 | 0.0 | 19.9 | 31.5 | 0.0 | 0.03 | 0.27 | 0.01 | 79.8 | 128.7 | 7.3 | 1.79 | 1.79 | 1.79 | 0.050 | | | | | | | | | | | | | | | | | | | |
| 06/29/2021 | Tue | 50.8 | 262 | 539 | 60.3 | 0.0 | 21.6 | 38.7 | 0.0 | 0.03 | 0.25 | 0.01 | 78.8 | 124.3 | 7.3 | 1.79 | 1.79 | 1.79 | 0.140 | | | | | | | | | | | | | | | | | | | |
| 06/30/2021 | Wed | 55.0 | | | 42.4 | 0.0 | 17.3 | 25.1 | 0.0 | 0.03 | 0.04 | 0.00 | 77.5 | 110.8 | 7.1 | 1.79 | 1.79 | 1.79 | 0.110 | 3.0 | 99.4 | 0.9 | 99.7 | 0.6 | 0.6 | 0.05 | 0.09 | 0.48 | 0.39 | 1.10 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | 1,713 | | | 1,568 | 0 | 474 | 1,094 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | | 73.6 | 304 | 614 | 67.8 | 0.0 | 26.4 | 57.5 | 0.0 | 0.27 | 0.29 | 0.04 | 79.8 | 146.4 | 7.8 | 1.79 | 1.79 | 1.79 | 0.320 | 8.0 | 99.5 | 1.0 | 99.7 | 1.3 | 1.2 | 0.05 | 0.09 | 1.09 | 1.00 | 2.38 | 4.9 | 2.4 | 708 | 105 | 177 | 0.33 | 0.31 |
| AVG | | 57.1 | 244 | 501 | 52.3 | 0.0 | 15.8 | 36.5 | 0.0 | 0.04 | 0.12 | 0.01 | 76.6 | 119.3 | 7.4 | 1.79 | 1.79 | 1.79 | 0.123 | 4.0 | 99.1 | 0.9 | 99.6 | 0.7 | 0.7 | 0.05 | 0.09 | 0.56 | 0.47 | 1.30 | 4.9 | 2.4 | 708 | 105 | 177 | 0.33 | 0.31 |
| MIN | | 47.5 | 114 | 365 | 37.0 | 0.0 | 0.2 | 16.3 | 0.0 | 0.03 | 0.03 | 0.00 | 72.8 | 98.1 | 6.7 | 1.79 | 1.79 | 1.79 | 0.049 | 3.0 | 97.8 | 0.9 | 99.2 | 0.2 | 0.2 | 0.05 | 0.09 | 0.23 | 0.14 | 0.86 | 4.9 | 2.4 | 708 | 105 | 177 | 0.33 | 0.31 |

## ATTACHMENT B: QUARTERLY EFF

| | | | >> DATE >> | 1/7 | 4/23 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MCL | Units | Q1 | Q2 | Q3 | Q3 | Q4 | MAX | AVG | MIN |
| **A1 - Inorganic Chemicals** | | | | | | | | | | |
| Aluminum | 1 | mg/L | 0.02 | 0.02 | | | | 0.02 | 0.02 | 0.02 |
| Antimony | 0.006 | mg/L | 0.0009 | 0.0016 | | | | 0.0016 | 0.00125 | 0.0009 |
| Arsenic | 0.01 | mg/L | 0.0011 | 0.0021 | | | | 0.0021 | 0.0016 | 0.0011 |
| Asbestos | 7 | MFL | 0 | 0 | | | | 0 | 0 | 0 |
| Barium | 1 | mg/L | 0.013 | 0.016 | | | | 0.016 | 0.0145 | 0.013 |
| Beryllium | 0.004 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Cadmium | 0.005 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Chromium | 0.05 | mg/L | 0.0026 | 0.0033 | | | | 0.0033 | 0.00295 | 0.0026 |
| Cyanide | 0.15 | mg/L | 0.004 | 0.019 | | | | 0.019 | 0.0115 | 0.004 |
| Mercury | 0.002 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Nickel | 0.1 | mg/L | 0.0035 | 0.004 | | | | 0.004 | 0.00375 | 0.0035 |
| Selenium | 0.05 | mg/L | 0.0019 | 0.0019 | | | | 0.0019 | 0.0019 | 0.0019 |
| Thallium | 0.002 | mg/L | 0.0009 | 0.0009 | | | | 0.0009 | 0.0009 | 0.0009 |
| Perchlorate | 0.006 | mg/L | 0 | 0 | | | | 0 | 0 | 0 |
| Fluoride | 2 | mg/L | 1.69 | 1.57 | | | | 1.69 | 1.63 | 1.57 |
| **A2 - Radioactivity** | | | | | | | | | | |
| Radium-226 + Radium-228 | 5 | pCi/L | 0.868 | 0.807 | | | | 0.868 | 0.8375 | 0.807 |
| Gross Alpha Particle Activity[1] | 15 | pCi/L | 1.32 | 1.3 | | | | 1.32 | 1.31 | 1.3 |
| Tritium | 20,000 | pCi/L | 434 | 434 | | | | 434 | 434 | 434 |
| Strontium-90 | 8 | pCi/L | 0.421 | 0.438 | | | | 0.438 | 0.4295 | 0.421 |
| Gross Beta Particle Activity | 50 | pCi/L | 0.921 | 0.922 | | | | 0.922 | 0.9215 | 0.921 |
| Uranium | 20 | pCi/L | 0.69 | 0.69 | | | | 0.69 | 0.69 | 0.69 |
| **A3 - Volatile Organic Chemicals** | | | | | | | | | | |
| Benzene | 0.001 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Carbon Tetrachloride (CTC) | 0.0005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1,2-Dichlorobenzene | 0.6 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1.4-Dichlorobenzene | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1, 1-Dichloroethane | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1,2-Dichloroethane (1,2-DCA) | 0.0005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1, 1-Dichloroethene (1, 1-DCE) | 0.006 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Cis-1,2-Dichloroethylene | 0.006 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Trans-1,2-Dichloroethylene | 0.01 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Dichloromethane | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1,2-Dichloropropane | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1,3-Dichloropropene | 0.0005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Ethylbenzene | 0.3 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Methyl-tert-butyl-ether (MTBE) | 0.013 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Monochlorobenzene | 0.07 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Styrene | 0.1 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1,1,2,2-Tetrachloroethane | 0.001 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Tetrachloroethylene (PCE) | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |

| | | | >> DATE >> | 1/7 | 4/23 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MCL | Units | Q1 | Q2 | Q3 | Q3 | Q4 | MAX | AVG | MIN |
| **A3 - Non-Volatile Synthetic Organics** | | | | | | | | | | |
| Alachlor | 0.002 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Atrazine | 0.001 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Bentazon | 0.018 | mg/L | 0.0009 | 0.0009 | | | | 0.0009 | 0.0009 | 0.0009 |
| Benzo(a)pyrene | 0.0002 | mg/L | 0.000049 | 0.000049 | | | | 0.000049 | 0.000049 | 0.000049 |
| Carbofuran | 0.018 | mg/L | 0.0009 | 0.0009 | | | | 0.0009 | 0.0009 | 0.0009 |
| Chlordane | 0.0001 | mg/L | 0.000089 | 0.000089 | | | | 0.000089 | 0.000089 | 0.000089 |
| 2,4-D | 0.07 | mg/L | 0.0009 | 0.0009 | | | | 0.0009 | 0.0009 | 0.0009 |
| Dalapon | 0.2 | mg/L | 0.0049 | 0.0049 | | | | 0.0049 | 0.0049 | 0.0049 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0002 | mg/L | 0.000009 | 0.000009 | | | | 0.000009 | 0.000009 | 0.000009 |
| Di(2-ethylhexyl)adipate | 0.4 | mg/L | 0.0019 | 0.0019 | | | | 0.0019 | 0.0019 | 0.0019 |
| Di(2-ethylhexyl)phthalate | 0.004 | mg/L | 0.0019 | 0.0019 | | | | 0.0019 | 0.0019 | 0.0019 |
| Dinoseb | 0.007 | mg/L | 0.0009 | 0.0009 | | | | 0.0009 | 0.0009 | 0.0009 |
| Diquat | 0.02 | mg/L | 0 | 0 | | | | 0 | 0 | 0 |
| Endothall | 0.1 | mg/L | 0 | 0 | | | | 0 | 0 | 0 |
| Endrin | 0.002 | mg/L | 0.000009 | 0.000009 | | | | 0.000009 | 0.000009 | 0.000009 |
| Ethylene Dibromide (EDB) | 0.00005 | mg/L | 0.0000019 | 0.000019 | | | | 0.000019 | 0.00001045 | 0.0000019 |
| Glyphosate | 0.7 | mg/L | 0 | 0 | | | | 0 | 0 | 0 |
| Heptachlor | 0.00001 | mg/L | 0.000009 | 0.000089 | | | | 0.000089 | 0.000049 | 0.000009 |
| Heptachlor Epoxide | 0.00001 | mg/L | 0.000009 | 0.000089 | | | | 0.000089 | 0.000049 | 0.000009 |
| Hexachlorobenzene | 0.001 | mg/L | 0.000009 | 0.000089 | | | | 0.000089 | 0.000049 | 0.000009 |
| Hexachlorocyclopentadiene | 0.05 | mg/L | 0.000009 | 0.000089 | | | | 0.000089 | 0.000049 | 0.000009 |
| lindane | 0.0002 | mg/L | 0.000009 | 0.000089 | | | | 0.000089 | 0.000049 | 0.000009 |
| Methoxychlor | 0.03 | mg/L | 0.000049 | 0.000049 | | | | 0.000049 | 0.000049 | 0.000049 |
| Molinate | 0.02 | mg/L | 0.0002 | 0.00019 | | | | 0.0002 | 0.000195 | 0.00019 |
| Oxamyl | 0.05 | mg/L | 0.0019 | 0.0019 | | | | 0.0019 | 0.0019 | 0.0019 |
| Pentachlorophenol | 0.001 | mg/L | 0.000089 | 0.000089 | | | | 0.000089 | 0.000089 | 0.000089 |
| Picloram | 0.5 | mg/L | 0.0009 | 0.0009 | | | | 0.0009 | 0.0009 | 0.0009 |
| Polychlorinated Biphenyls | 0.0005 | mg/L | 0.000089 | 0.00019 | | | | 0.00019 | 0.0001395 | 0.000089 |
| Simazine | 0.004 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Thiobencarb | 0.07 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Toxaphene | 0.003 | mg/L | 0.000089 | 0.000089 | | | | 0.000089 | 0.000089 | 0.000089 |
| 2,3,7,8-TCDD (Dioxin) | 3x10-a | mg/L | 9.86 | 9.18 | | | | 9.86 | 9.52 | 9.18 |
| 2,4,5-TP (Silvex) | 0.05 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| **A4 - Disinfection Byproducts** | | | | | | | | | | |
| Total Trihalomethanes (TTHM) | 0.08 | ppb | 0.0007 | 20.6 | | | | 20.6 | 10.30035 | 0.0007 |
| Bromodichloromethane | | | 0.0026 | 0.0067 | | | | 0.0067 | 0.00465 | 0.0026 |
| Bromoform | | | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Chloroform | | | 0.0063 | 0.0127 | | | | 0.0127 | 0.0095 | 0.0063 |
| Dibromochloromethane | | | 0.0007 | 0.0012 | | | | 0.0012 | 0.00095 | 0.0007 |
| Haloacetic acid (five) (HAA5) | 0.06 | ppb | 6.58 | 23.2 | | | | 23.2 | 14.89 | 6.58 |
| Monochloroacetic acid | | ppb | 0.9 | 4.87 | | | | 4.87 | 2.885 | 0.9 |
| Dichloroacetic acid | | ppb | 4.3 | 12.5 | | | | 12.5 | 8.4 | 4.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | 0.15 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1,2,4-Trichlorobenzene | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1, 1, 1-Trichloroethane | 0.2 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1, 1,2-Trichloroethane | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Trichloroethylene (TCE) | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Trichlorofluoromethane | 0.15 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| 1, 1,2-Trichloro-1,2,2-Trifluoroethane | 1.2 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Vinyl Chloride | 0.0005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Xylene (m,p) | 1.75 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |

Notes:
1) Including Radium-226 but Excluding Radon and Uranium)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroacetic acid | | ppb | 1.7 | 5.1 | | | | 5.1 | 3.4 | 1.7 |
| Monobromoacetic acid | | ppb | 0.9 | 0.9 | | | | 0.9 | 0.9 | 0.9 |
| Dibromoacetic acid | | ppb | 0.7 | 0.9 | | | | 0.9 | 0.8 | 0.7 |
| Bromate 121 | 0.01 | ppb | 24.9 | 24.9 | | | | 24.9 | 24.9 | 24.9 |
| Chlorite131 | 1 | ppb | 99.9 | 99.9 | | | | 99.9 | 99.9 | 99.9 |
| **A5 - Secondary MCLs** | | | | | | | | | | |
| Aluminum | 0.2 | mg/L | 0.02 | 0.02 | | | | 0.02 | 0.02 | 0.02 |
| Color | 150 | CU | 34.1 | 33.3 | | | | 34.1 | 33.7 | 33.3 |
| Copper | 1 | mg/L | 0.0005 | 0.0015 | | | | 0.0015 | 0.001 | 0.0005 |
| Corrosivity (Langelier Index) | Non | | -0.006 | 0.3 | | | | 0.3 | 0.147 | -0.006 |
| Foam Agents (MBAS) | 0.5 | mg/L | 0.3 | 0.51 | | | | 0.51 | 0.405 | 0.3 |
| Iron | 0.3 | mg/L | 0.04 | 0.05 | | | | 0.05 | 0.045 | 0.04 |
| Manganese | 0.05 | mg/L | 0.063 | 0.052 | | | | 0.063 | 0.0575 | 0.052 |
| Methyl-tert-butyl-ether (MTBE) | 0.005 | mg/L | 0.00049 | 0.00049 | | | | 0.00049 | 0.00049 | 0.00049 |
| Odor - Threshold | 3 | T.O.N. | 0.9 | 0.9 | | | | 0.9 | 0.9 | 0.9 |
| Silver | 0.1 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Thiobencarb | 0.001 | mg/L | 0.00019 | 0.00019 | | | | 0.00019 | 0.00019 | 0.00019 |
| Zinc | 5 | mg/L | 0.048 | 0.035 | | | | 0.048 | 0.0415 | 0.035 |

## ATTACHMENT C: SEWAGE, SLUDGE, AND GREASE HAULING

| | DATE | DAY | GAL | LOCATION | DESCRIPTION | REASON FOR HAUL | DESTINATION | HAULER |
|---|---|---|---|---|---|---|---|---|
| FIRST QUARTER | 01/13/2021 | Wed | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 01/22/2021 | Fri | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 02/03/2021 | Wed | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 02/09/2021 | Tue | 7,500 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 02/10/2021 | Wed | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 02/11/2021 | Thu | 2,500 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 03/04/2021 | Thu | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | | | | | | | | |
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| | QUARTER TOTAL | | 35,000 | | | | | |
| SECOND QUARTER | 04/02/2021 | Fri | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 04/06/2021 | Tue | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 05/06/2021 | Thu | 20,000 | 104 | Waste Activated Sludge | Biological Process Control | PCV | Ely Jr's Pumping |
| | 05/14/2021 | Fri | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 05/20/2021 | Thu | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 06/03/2021 | Thu | 5,000 | MBT | Septic Sewage & Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 06/04/2021 | Fri | 5,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
| | 06/24/2021 | Thu | 10,000 | MBT | Waste Activated Sludge | Biological Process Control | JWPCP | Ely Jr's Pumping |
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| | QUARTER TOTAL | | 60,000 | | | | | |

## ATTACHMENT H: SEWAGE, SLUDGE, AND GREASE HAULING

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| THIRD QUARTER | | | | | | | | |
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| | QUARTER TOTAL | | 0 | | | | | |
| FOURTH QUARTER | | | | | | | | |
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| | QUARTER TOTAL | | 0 | | | | | |

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 14-Apr-21 11:46
Subject: (MCC) Daily EFF

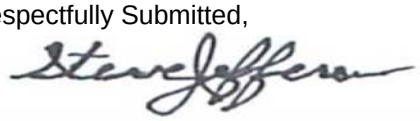
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0023-01) Collected: 01-Apr-21 By MA of PCL** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10126 | 1.8 | 01-Apr-21 | 03-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10126 | 1.8 | 01-Apr-21 | 03-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD10305 | 0.1 | 01-Apr-21 | 01-Apr-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10142 | 0.05 | 01-Apr-21 | 01-Apr-21 | **0.06 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/14/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 2D0023

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project:** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Mario Aguirre |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardell/ Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/1/21 | 1052 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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| Geotracker EDD: Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 4/1/21 | 11:12 |
| Received by | Richard Martinez PCL | 4/1/21 | 12:50 |
| Relinquished by | Richard Martinez PCL | 4/1/21 | 14:28 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | MARIO SANTIESTEBAN (PCL) | 4/1/21 | 1428 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | (Yes) | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**Al** - $AlCl_3$
**Cu** - $CuSO_4$

**Note:** Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Apr-21 15:32
Subject: (MCC) Monthly EFF

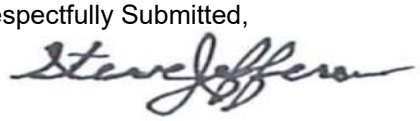
Project/P.O.#: (MCC) Monthly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0022-01) Collected: 01-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Dissolved Solids** | SM 2540C | AD10430 | 5 | 04-Apr-21 | 05-Apr-21 | **612 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Chloride** | EPA 300.0 | AD11428 | 20.0 | 14-Apr-21 | 17-Apr-21 | **169 mg/l** | |
| **Sulfate as SO4** | EPA 300.0 | AD11428 | 10.0 | 14-Apr-21 | 17-Apr-21 | **117 mg/l** | |
| **Boron** | EPA 200.7 | AD10208 | 0.10 | 02-Apr-21 | 06-Apr-21 | **0.30 mg/l** | |
| **Phosphorus, Total as P** | EPA 365.3 | AD10312 | 0.50 | 03-Apr-21 | 03-Apr-21 | **1.85 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **MBAS** | SM 5540 C | AC13135 | 0.08 | 02-Apr-21 | 02-Apr-21 | **<0.08 mg/l** | |
| **Oil & Grease (HEM)** | EPA 1664A | AD11224 | 5 | 12-Apr-21 | 13-Apr-21 | **<5 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0022

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project:** (MCC) EFF - Monthly | |
| **Address:** 9297 Research Drive | | **Sampled by:** Mario Aguirre | **P.O. #:** |
| Irvine CA 92618 | | **Report Attention:** Ric Vardel / Golan Kfir | **Phone #:** 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/1/21 | 11:02 | 1 | Sulfate, Chloride, TDS | Grab | AQ | 1/2 Gal. P | 4°C | |
| " | " | " | 1 | MBAS | Grab | AQ | 500 P | 4°C | |
| " | " | " | 1 | Oil & Grease | Grab | AQ | 1L G | HC | |
| " | " | " | 1 | Boron | Grab | AQ | 250 P | HN | |
| " | " | " | 1 | T.Phos | Grab | AQ | 500 P | 4°C | |
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| Geotracker EDD: Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 4/1/21 | 11:12 |
| Received by | Richard Martinez PCL | 4/1/21 | 12:50 |
| Relinquished by | Richard Martinez PCL | 4/1/21 | 14:28 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | MARIO SANTIESTEBAN (PCL) | 4/1/21 | 14:29 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** - Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 14-Apr-21 11:52
Subject: (MCC) Daily EFF

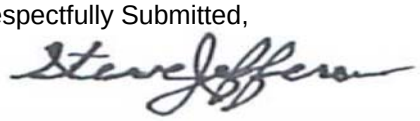
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0049-01) Collected: 02-Apr-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10212 | 1.8 | 02-Apr-21 | 04-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10212 | 1.8 | 02-Apr-21 | 04-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD10305 | 0.1 | 02-Apr-21 | 02-Apr-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10217 | 0.05 | 02-Apr-21 | 02-Apr-21 | **0.06 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/14/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0049

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine - CA 92618 | Report Attention: | Ric Varde / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/2/21 | 11:04 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 02 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/2/21 | 11:07 |
| Received by | | Richard Martinez (PCL) | 4/2/21 | 14:27 |
| Relinquished by | | Richard Martinez (PCL) | 4/2/21 | 15:48 |
| Received by | | ~~Richard Martinez (PCL)~~ | 4/2/21 | |
| Relinquished by | | | | |
| Received in lab by | | APR 02 2021 | | 15:48 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
ON - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 14-Apr-21 11:55
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0055-01) Collected: 03-Apr-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10304 | 1.8 | 03-Apr-21 | 05-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10304 | 1.8 | 03-Apr-21 | 05-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD10425 | 0.1 | 04-Apr-21 | 10-Apr-21 | **7.7 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10318 | 0.05 | 03-Apr-21 | 04-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/14/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0055

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Jesus Avalos |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/3/21 | 9:50 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.68/21.1 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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| ~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 4/3/21 | 9:55 |
| Received by: | Richard Martinez (PCL) | 4/3/21 | 12:05 |
| Relinquished by: | Richard Martinez (PCL) | 4/3/21 | 13:40 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | MARIO SANTIESTEBAN (PCL) | 4/3/21 | 1340 |

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Apr-21 17:58
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0059-01) Collected: 04-Apr-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10516 | 1.8 | 05-Apr-21 | 07-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10516 | 1.8 | 05-Apr-21 | 07-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11005 | 0.1 | 04-Apr-21 | 04-Apr-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10526 | 0.05 | 05-Apr-21 | 05-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** ZID0059

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project:** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | ERIC MORRIS |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/4/21 | 9:45 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | 4/4/21 | 945 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | ERIC MORRIS IPC | 4/4/21 | 9:58 |
| Received by | Alex Wallen Jr | 4/4/21 | 10:20 |
| Relinquished by | Alex Wallen Jr | 4/4/21 | 12:20 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | MARIO SANTIESTEBAN (RC) | 4/4/21 | 1230 |

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 15-Apr-21 18:01
Subject: (MCC) Daily EFF

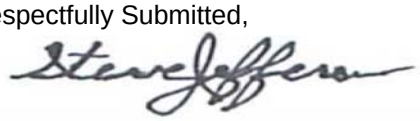
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0078-01) Collected: 05-Apr-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10516 | 1.8 | 05-Apr-21 | 07-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10516 | 1.8 | 05-Apr-21 | 07-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11005 | 0.1 | 05-Apr-21 | 05-Apr-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10526 | 0.05 | 05-Apr-21 | 05-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 210078

| | | | |
|---|---|---|---|
| **Customer:** | IPC - integrated Performance Consultants, Inc. | **Project:** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | C.D. |
| | Irvine CA - 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 04/05/21 | 1145 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 05 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Carlos Alkam (CAC) | 04/05/21 | 1200 |
| Received by | Juan Vasquez (PCL) | 4/5/21 | 12:16 |
| Relinquished by | Juan Vasquez (PCL) | 4/5/21 | 15:00 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | APR 05 2021 | | 15:00 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Apr-21 18:04
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0105-01) Collected: 06-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10630 | 1.8 | 06-Apr-21 | 09-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10630 | 1.8 | 06-Apr-21 | 09-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11005 | 0.1 | 06-Apr-21 | 06-Apr-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10920 | 0.05 | 07-Apr-21 | 07-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0105

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** (MCC) Daily EFF | |
| **Address:** | 9297 Research Drive | **Sampled by:** Mario Aguirre | **P.O. #:** |
| | Irvine CA 92618 | **Report Attention:** Ric Vardel /Golan Kfir | **Phone #:** 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/6/21 | 11:07 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 06 2021
By

Geotracker EDD:
Logcode: IPC!
Global ID: WDR109000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 4/6/21 | ~~11:10~~ |
| Received by | Juan Vasquez (PCL) | 4/6/21 | 12:14 |
| Relinquished by | Juan Vasquez (PCL) | 4/6/21 | 14:40 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | | APR 06 2021 | 14:40 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 14-Apr-21 15:24
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21D0158-01) Collected: 06-Apr-21 By C.A of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD10740 | 1 | 08-Apr-21 | 08-Apr-21 | **315 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD10913 | 2 | 09-Apr-21 | 14-Apr-21 | **508 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/14/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0158

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 04/06/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| " | " | " | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

RECEIVED
APR 07 2021
By

~~Geotracker EDD~~:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 04/07/21 | 13:00 |
| Received by | | Richard Martinez PCL | 04/9/21 | 13:00 |
| Relinquished by | | Richard Martinez PCL | 4/7/21 | 16:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 07 2021 | | 16:30 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| ~~Grab~~ Comp | AQ - Water | P - Plastic |
| | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Apr-21 18:06
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0157-01) Collected: 07-Apr-21 By RM of PCL** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10736 | 1.8 | 07-Apr-21 | 09-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10736 | 1.8 | 07-Apr-21 | 09-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11005 | 0.1 | 07-Apr-21 | 07-Apr-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10920 | 0.05 | 08-Apr-21 | 08-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0157

Customer: ~~IPC - Integrated Performance Consultants, Inc.~~ (MCC) EFF - Daily

Project :

Address: ~~9297 Research Drive~~ Irvine CA 92618

Sampled by: C.G

Report Attention: Ric Vardel / Golan Kfir

P.O. #:

Phone #: 949-382-9067

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 04/07/21 | 1215 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500 P | 4°C | |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli | ST | |
| 1 | 1 | 1 | | | | | | | |

RECEIVED
APR 07 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Caitlyn Gilliam (CGC) | 04/07/21 | 13:00 |
| Received by | Richard Martinez PCL | 4/7/21 | 1300 |
| Relinquished by | Richard Martinez | 4/7/21 | 16:26 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | APR 07 2021 | | 16:26 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

Sample Type: (Grab) Comp

Matrix: (AQ) - Water; SO -Soil / Sludge; OT - Other

Bottle Type: (P) - Plastic; G - Amber Glass; VOA - 40 ml Vial; Coli - bacteria

Preservations: HC - HCl; HS - $H_2SO_4$; HN - $HNO_3$; HP - $H_3PO_4$; OH - NaOH; (ST) - Sodium Thiosulfate; AA - Ascorbic Acid; AI - $AlCl_3$; Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 14-Apr-21 15:21
Subject: (MCC) Weekly EFF

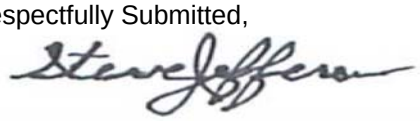
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0159-01) Collected: 07-Apr-21 By JL of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD11009 | 1 | 10-Apr-21 | 11-Apr-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AD11136 | 0.10 | 11-Apr-21 | 12-Apr-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AD10823 | 0.05 | 08-Apr-21 | 08-Apr-21 | **0.05 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AD10823 | 0.05 | 08-Apr-21 | 08-Apr-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AD10821 | 0.10 | 08-Apr-21 | 09-Apr-21 | **1.03 mg/l** | |
| **EFF (Sample I.D.# : 21D0159-02) Collected: 06-Apr-21 By JL of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD10913 | 2 | 09-Apr-21 | 14-Apr-21 | **4 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/14/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0159

Customer: [illegible]
Project : [illegible]
Address: [illegible]
Irvine CA 92618
Sampled by: [illegible]
Report Attention: [illegible]
P.O. #:
Phone #: [illegible]

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 04/07/21 | 1215 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml-Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml-Plastic | 4°C | |
| | 04/26/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

RECEIVED
APR 07 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 04/07/21 | 13:00 |
| Received by | | Richard Martinez PCL | 4/7/21 | 13:00 |
| Relinquished by | | Richard Martinez PCL | 4/7/21 | 16:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 07 2021 | | 16:30 |

Sample Received Checklist

| | | |
|---|---|---|
| Temperature upon receipt: | 4°C | |
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

Compliance Monitor
Initial Flow _____
Final Flow _____

Sample Type: Grab, Comp
Matrix: AQ - Water; SO - Soil / Sludge; OT - Other
Bottle Type: P - Plastic; G - Amber Glass; VOA - 40 ml Vial; Coli - bacteria

Preservations: HC - HCl; HS - $H_2SO_4$; HN - $HNO_3$; HP - $H_3PO_4$; OH - NaOH; ST - Sodium Thiosulfate; AA - Ascorbic Acid; Al - $AlCl_3$; Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Apr-21 18:08
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0196-01) Collected: 08-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10908 | 1.8 | 09-Apr-21 | 11-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10908 | 1.8 | 09-Apr-21 | 11-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11005 | 0.1 | 08-Apr-21 | 08-Apr-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10920 | 0.05 | 09-Apr-21 | 09-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0196

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project:** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Mario Aguirre |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/8/21 | 10:56 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 08 2021
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/8/21 | 10:59 |
| Received by | | Richard Martinez PCL | 4/8 | 14:15 |
| Relinquished by | | Richard Martinez PCL | 4/8 | 16:16 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 08 2021 | | 16:16 |

**Sample Received Checklist** (Y / N)

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | ~~Yes~~ | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(G) Grab
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Apr-21 18:10
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0216-01) Collected: 09-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD10908 | 1.8 | 09-Apr-21 | 11-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD10908 | 1.8 | 09-Apr-21 | 11-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11005 | 0.1 | 09-Apr-21 | 09-Apr-21 | **8.0 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD10920 | 0.05 | 09-Apr-21 | 09-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0216

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Mario Aguirre |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardell / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/9/21 | 11:05 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 8.08/22.3 |
| 11 | 11 | 11 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C ST | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 4/9/21 | 11:08 |
| Received by | MARIO SANTIESTEBAN (PCL) | 4/9/21 | 1405 |
| Relinquished by | MARIO SANTIESTEBAN (PCL) | 4/9/21 | 1545 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | MARIO SANTIESTEBAN (PCL) | 4/9/21 | 1545 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Apr-21 18:12
Subject: (MCC) Daily EFF

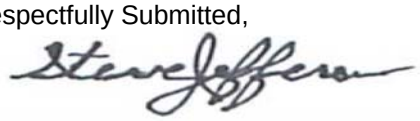
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0223-01) Collected: 10-Apr-21 By JA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11004 | 1.8 | 10-Apr-21 | 12-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11004 | 1.8 | 10-Apr-21 | 12-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11016 | 0.1 | 10-Apr-21 | 10-Apr-21 | **7.9 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11015 | 0.05 | 10-Apr-21 | 10-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0223

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) EFF - Daily |
| Address: | 9297 Research Drive | Sampled by: | Jesus Avalos |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/10/21 | 9:50 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.87/19.4°C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 4/10/21 | 9:55 |
| Received by: | Richard Martinez (PCL) | 4/10/21 | 12:10 |
| Relinquished by: | Richard Martinez (PCL) | 4/10/21 | 13:30 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | MARIO SANTIESTEBAN (PCL) | 4/10/21 | 13:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO -Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | Al - $AlCl_3$ |
| G - Amber Glass | Cu -$CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Apr-21 18:14
Subject: (MCC) Daily EFF

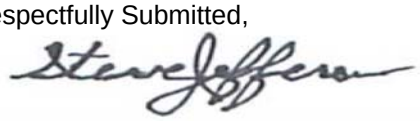
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0231-01) Collected: 11-Apr-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11127 | 1.8 | 11-Apr-21 | 13-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11127 | 1.8 | 11-Apr-21 | 13-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11134 | 0.1 | 11-Apr-21 | 11-Apr-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11135 | 0.05 | 11-Apr-21 | 11-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0231

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project:** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | ERIC MORRIS |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4-11-21 | 9:50 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | ERIC MORRIS IPC | 4-11-21 | 9:54 |
| Received by | | Juan Vasquez (PCL) | 4/11/21 | 12:44 |
| Relinquished by | | Juan Vasquez (PCL) | 4/11/21 | 13:40 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | Jordan Corkery | 4/11/21 | 1340 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**Al** - $AlCl_3$
**Cu** - $CuSO_4$

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 14:53
Subject: (MCC) Daily EFF

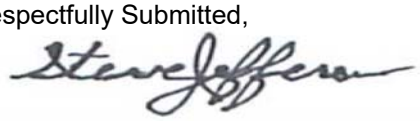
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0243-01) Collected: 12-Apr-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11227 | 1.8 | 12-Apr-21 | 16-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11227 | 1.8 | 12-Apr-21 | 16-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11616 | 0.1 | 12-Apr-21 | 12-Apr-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11230 | 0.05 | 12-Apr-21 | 12-Apr-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0243

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Carlos Alvarez

Report Attention: Ric Vardel / Golan Kfir

P.O. #:

Phone #: 949-382-9067

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 04/12/21 | 1150 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500 P | 4°C | 7.2 / 22.0 °C |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli | ST | |

RECEIVED
APR 12 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 04/12/21 | 1200 |
| Received by | | | 4-12-21 | 12:06 |
| Relinquished by | | | 4-12-21 | 13:22 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 12 2021 | | 13:22 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | Al - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

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San Fernando, CA 91340
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(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Apr-21 14:57
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0280-01) Collected: 13-Apr-21 By JL of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11329 | 1.8 | 13-Apr-21 | 15-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11329 | 1.8 | 13-Apr-21 | 15-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11616 | 0.1 | 13-Apr-21 | 13-Apr-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11432 | 0.05 | 14-Apr-21 | 14-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 210280

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | |
| | Irvine - CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 04/13/21 | 12:35 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.3 / 20.2 °C |
| | 1 | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Lucio Lem | 04/13/21 | 12:30 |
| Received by | | Cindy M | 4-13-21 | 12:30 |
| Relinquished by | | Cindy M | 4-13-21 | 1355 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by: | | | APR 13 2021 | 13:55 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:41
Subject: (MCC) Weekly INF

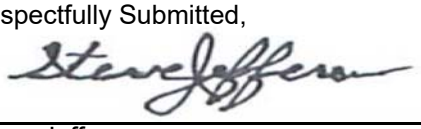
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21D0330-01) Collected: 13-Apr-21 By KV** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD11529 | 1 | 15-Apr-21 | 15-Apr-21 | **173 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD11530 | 2 | 15-Apr-21 | 20-Apr-21 | **381 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0330

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Weekly iNF |
| Address: | 9297 Research Drive | Sampled by: | Kyle Vardel |
| | Irvine CA- 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 4/13/21 | 2359 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | 7.6 / 15.4 °C |
| | | | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Kyle Vardel (IPC) | 4/14/21 | 1210 |
| Received by | Cindy Martinez | 4.14.21 | 1255 |
| Relinquished by | Cindy Martinez | 4.14.21 | 14:20 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | APR 14 2021 | | 14:20 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab (W) | AQ - Water | P - Plastic |
| Comp (S) | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:00
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0325-01) Collected: 14-Apr-21 By KV** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11426 | 1.8 | 14-Apr-21 | 16-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11426 | 1.8 | 14-Apr-21 | 16-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11616 | 0.1 | 14-Apr-21 | 14-Apr-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11432 | 0.05 | 14-Apr-21 | 14-Apr-21 | **0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 210325

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) EFF - Daily |
| Address: | 9297 Research Drive | Sampled by: | Kyle Vardel |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/14/21 | 1205 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.3/20.1 |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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APR 14 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Kyle Vardel (IPC) | 4/14/21 | 1210 |
| Received by | | Cindy Mathias | 4-14-21 | 1255 |
| Relinquished by | | Cindy Mathias | 4-14-21 | 14:20 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 14 2021 | | 14:20 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | Al - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

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(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Apr-21 15:35
Subject: (MCC) Weekly EFF

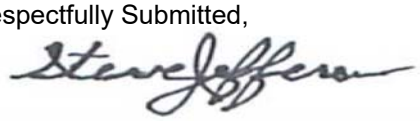
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0329-01) Collected: 14-Apr-21 By KV** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD11529 | 1 | 15-Apr-21 | 15-Apr-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AD11939 | 0.10 | 19-Apr-21 | 19-Apr-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AD11533 | 0.05 | 15-Apr-21 | 15-Apr-21 | **0.07 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AD11533 | 0.05 | 15-Apr-21 | 15-Apr-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AD11532 | 0.10 | 15-Apr-21 | 15-Apr-21 | **1.18 mg/l** | |
| **EFF (Sample I.D.# : 21D0329-02) Collected: 13-Apr-21 By KV** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD11530 | 2 | 15-Apr-21 | 20-Apr-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0329

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Platform Consultants, Inc. | | Project: (MCC) EFF - Weekly | |
| Address: 2257 Research Drive | | Sampled by: Kyle Vardel | P.O. #: |
| Irvine CA 92618 | | Report Attention: Kyle Vardel / Golan Kor | Phone #: 949-362-9057 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/14/21 | 1205 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | 8.4 \| 16.2 °C |
| | " | " | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 4/13/21 | 2359 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

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APR 14 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Kyle Vardel (IPC) | 4/14/21 | 1210 |
| Received by | Cindy Mariner | 4-14-21 | 1255 |
| Relinquished by | Cindy MARINER | 4-14-21 | 14:20 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | APR 14 2021 | | 14:20 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:02
Subject: (MCC) Daily EFF

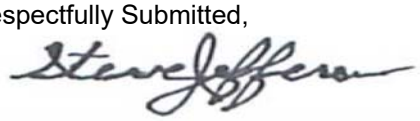
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0362-01) Collected: 15-Apr-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11531 | 1.8 | 15-Apr-21 | 17-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11531 | 1.8 | 15-Apr-21 | 17-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11616 | 0.1 | 15-Apr-21 | 15-Apr-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11537 | 0.05 | 15-Apr-21 | 15-Apr-21 | **0.06 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0362

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project :** (MCC) Daily EFF | |
| **Address:** 9297 Research Drive | | **Sampled by:** Golan Kfir | **P.O. #:** |
| Irvine CA - 92618 | | **Report Attention:** Ric Vardel / Golan Kfir | **Phone #:** 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: ~~Field~~ Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/15/21 | 11:20 | 1 | pH, T Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.6 / 4.1 °C |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 15 2021
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by GK | Golan IPC | 4/15/21 | 12:30 |
| Received by | Cindy Mynner | 4-15-21 | 12:30 |
| Relinquished by | Cindy Mynner | 4-15-21 | 13:35 |
| Received by | | | |
| Relinquished by | | | |
| Received by | APR 15 2021 | | 13:35 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
(G) Grab
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:05
Subject: (MCC) Daily EFF

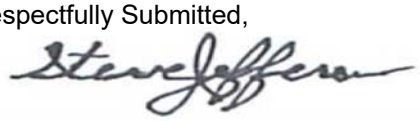
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0388-01) Collected: 16-Apr-21 By Kyle Vardel** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11614 | 1.8 | 16-Apr-21 | 18-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11614 | 1.8 | 16-Apr-21 | 18-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11616 | 0.1 | 16-Apr-21 | 16-Apr-21 | **6.8 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11615 | 0.05 | 16-Apr-21 | 16-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0388

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Kyle Vardel |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/16/21 | 1210 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 6.85 / 18.1C |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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APR 16 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Kyle Vardel (IPC) | 4/16/21 | 1245 |
| Received by | | Richard Martinez (PCL) | 4/16/21 | 13:30 |
| Relinquished by | | Richard Martinez | 4/16/21 | 14:45 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in Lab by | | APR 16 2021 | | 14:45 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Apr-21 15:08
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0404-01) Collected: 17-Apr-21 By Kyle Vardel** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11704 | 1.8 | 17-Apr-21 | 19-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11704 | 1.8 | 17-Apr-21 | 19-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD11710 | 0.1 | 17-Apr-21 | 18-Apr-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11709 | 0.05 | 17-Apr-21 | 17-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0404

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Jesus Avalos |
| | Irvine CA - 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/17/24 | 9:55 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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| | | | | | | | | | |
| ~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 4/17/24 | 10:00 |
| Received by: | Richard Martinez (PCL) | 4/17/24 | 12:05 |
| Relinquished by: | Richard Martinez | 4/17/24 | 13:30 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | RM PCL | 4/17/24 | 1340 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab<br>Comp | HC - HCl<br>HS - $H_2SO_4$<br>HN - $HNO_3$<br>HP - $H_3PO_4$<br>OH - NaOH<br>ST - Sodium Thiosulfate<br>~~AA~~ - Ascorbic Acid<br>Al - $AlCl_3$<br>Cu - $CuSO_4$ |
| **Matrix**<br>AQ - Water<br>SO - Soil / Sludge<br>OT - Other | |
| **Bottle Type**<br>P - Plastic<br>G - Amber Glass<br>VOA - 40 ml Vial<br>Coli - bacteria | |

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:11
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0408-01) Collected: 18-Apr-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11929 | 1.8 | 18-Apr-21 | 22-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11929 | 1.8 | 18-Apr-21 | 22-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12406 | 0.1 | 18-Apr-21 | 18-Apr-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD11936 | 0.05 | 19-Apr-21 | 19-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 210408

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Eric MORRIS |
| | Irvine - CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/18/21 | 940 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | 11 | 11 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Eric Morris / IPC | 4/18/21 | 9:52 |
| Received by | Juan V. (PCL) | 4/18/21 | 13:11 |
| Relinquished by | Juan V. (PCL) | 4/18/21 | 14:30 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by Jordan C | | 4/15/21 | 14:30 |

**Sample Received Checklist**

Temperature upon receipt: _____

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type | Preservations |
|---|---|---|---|
| **Grab** | **AQ** - Water | **P** - Plastic | **HC** - HCl |
| **Comp** | **SO** -Soil / Sludge | **G** - Amber Glass | **HS** - $H_2SO_4$ |
| | **OT** - Other | **VOA** - 40 ml Vial | **HN** - $HNO_3$ |
| | | **Coli** - bacteria | **HP** - $H_3PO_4$ |
| | | | **OH** - NaOH |
| | | | **ST** - Sodium Thiosulfate |
| | | | **AA** - Ascorbic Acid |
| | | | **Al** - $AlCl_3$ |
| | | | **Cu** - $CuSO_4$ |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:13
Subject: (MCC) Daily EFF

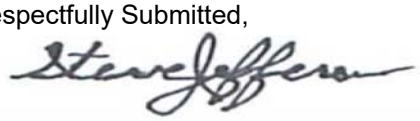
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0429-01) Collected: 19-Apr-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD11929 | 1.8 | 19-Apr-21 | 23-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD11929 | 1.8 | 19-Apr-21 | 23-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12406 | 0.1 | 19-Apr-21 | 19-Apr-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12041 | 0.05 | 20-Apr-21 | 20-Apr-21 | **0.06 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0429

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/19/21 | 11:35 | 1 | pH, T.Res Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.8 / 24.7 °C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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APR 19 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/19/21 | 11:38 |
| Received by | | Cindy Mumma | 4/19/21 | 11:38 |
| Relinquished by | | Cindy Mumma | 4/19/21 | 13:35 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 19 2021 | | 13:35 |

**Sample Received Checklist**

| | | |
|---|---|---|
| Temperature upon receipt: | 4° C | |
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:16
Subject: (MCC) Daily EFF

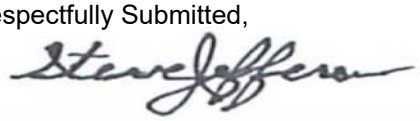
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0453-01) Collected: 20-Apr-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12034 | 1.8 | 20-Apr-21 | 23-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12034 | 1.8 | 20-Apr-21 | 23-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12406 | 0.1 | 20-Apr-21 | 20-Apr-21 | **7.7 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12041 | 0.05 | 20-Apr-21 | 20-Apr-21 | **0.08 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 2100453

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Golan Kfir |
| | Irvine - CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/20/21 | 11:55 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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APR 20 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: GK | Golan IPC | 4/20/21 | 12:32 |
| Received by: | Richard Martinez PCL | 4/20/21 | 12:32 |
| Relinquished by: | Richard Martinez | 4/20/21 | 15:00 |
| Received by: | | | |
| Relinquished by: | | | |
| Received by lab by: | APR 20 2021 | | 15:00 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:44
Subject: (MCC) Weekly INF

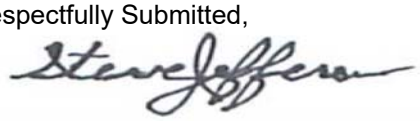
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21D0497-01) Collected: 20-Apr-21 By KV** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD12307 | 1 | 23-Apr-21 | 23-Apr-21 | **263 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD12234 | 2 | 22-Apr-21 | 27-Apr-21 | **531 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0497

| | | | |
|---|---|---|---|
| Customer: | iPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine CA 92618 | Report Attention: | Ric Varde / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 4/20/21 | 0:00 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| 11 | 11 | 0:00 | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

RECEIVED
APR 21 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/21/21 | 12:02 |
| Received by | | Richard Martinez PCL | 4/21/21 | 13:00 |
| Relinquished by | | Richard Martinez | 4/21/21 | 14:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 21 2021 | | 14:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Apr-21 15:18
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0484-01) Collected: 21-Apr-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12143 | 1.8 | 21-Apr-21 | 23-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12143 | 1.8 | 21-Apr-21 | 23-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12406 | 0.1 | 21-Apr-21 | 24-Apr-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12147 | 0.05 | 21-Apr-21 | 21-Apr-21 | **0.24 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21DC484

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project:** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Mario Aguirre |
| | Irvine - CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/21/21 | 11:07 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

RECEIVED
APR 21 2021
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 4/21/21 | 12:02 |
| Received by | Richard Martinez PCL | 4/21/21 | 13:00 |
| Relinquished by | Richard Martinez | 4/21/21 | 14:30 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | APR 21 2021 | | 14:30 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | AI - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Apr-21 15:38
Subject: (MCC) Weekly EFF

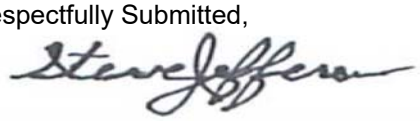
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0496-01) Collected: 21-Apr-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD12307 | 1 | 23-Apr-21 | 23-Apr-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AD12236 | 0.10 | 22-Apr-21 | 22-Apr-21 | **0.11 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AD12235 | 0.05 | 22-Apr-21 | 22-Apr-21 | **<0.05 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AD12235 | 0.05 | 22-Apr-21 | 22-Apr-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AD12304 | 0.10 | 23-Apr-21 | 23-Apr-21 | **0.69 mg/l** | |
| **EFF (Sample I.D.# : 21D0496-02) Collected: 20-Apr-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD12234 | 2 | 22-Apr-21 | 27-Apr-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0496

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc | Project: | (IPCC) EFF - Weekly |
| Address: | 5297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine CA 92618 | Report Attention: | Ric Vargas / Pete Kar |
| | | P.O. #: | |
| | | Phone #: | 949-502-4311 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/21/21 | 11:07 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| " | " | " | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| EFF | 4/20/21 | 0:00 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 4/21/21 | 12:02 |
| Received by | Richard Martinez PCL | 4/21/21 | 13:00 |
| Relinquished by | Richard Martinez | 4/21/21 | 14:50 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | APR 21 2021 | | 14:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:22
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0520-01) Collected: 22-Apr-21 By Golan Kfir of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12240 | 1.8 | 22-Apr-21 | 24-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12240 | 1.8 | 22-Apr-21 | 24-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12406 | 0.1 | 22-Apr-21 | 22-Apr-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12405 | 0.05 | 23-Apr-21 | 23-Apr-21 | **0.08 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0520

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Golan Kfir |
| | Irvine - CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/22/21 | 12:10 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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APR 22 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by GK | Golan IPC | 4/22/21 | 14 00 |
| Received by | Richard Martinez PCL | 4/22/21 | 1400 |
| Relinquished by | Richard Martinez | 4/22/21 | 1540 |
| Received by | | | |
| Relinquished by | | | |
| Received (lab) by | APR 22 2021 | | 15:40 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | (Yes) | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:24
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0537-01) Collected: 23-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12306 | 1.8 | 23-Apr-21 | 25-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12306 | 1.8 | 23-Apr-21 | 25-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12406 | 0.1 | 23-Apr-21 | 23-Apr-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12405 | 0.05 | 24-Apr-21 | 24-Apr-21 | **0.06 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 2100537

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Mario Aguirre |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/23/21 | 11:36 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.5 / 19.6 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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APR 23 2021

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/23/21 | 11:45 |
| Received by | | Cindy Manning | 4/23/21 | 12:11 |
| Relinquished by | | Cindy Manning | 4/23/21 | 13:35 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 23 2021 | | 13:35 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 13-Jul-21 15:37
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0536-01) Collected: 23-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Alkalinity** | SM 2320B | AD12527 | 1 | 25-Apr-21 | 25-Apr-21 | **140 mg/l** | |
| **Carbonate Alkalinity** | SM 2320B | AD12527 | 1 | 25-Apr-21 | 25-Apr-21 | **<1 mg/l** | |
| **Bicarbonate Alkalinity** | SM 2320B | AD12527 | 1 | 25-Apr-21 | 25-Apr-21 | **140 mg/l** | |
| **Hydroxide Alkalinity** | SM 2320B | AD12527 | 1 | 25-Apr-21 | 25-Apr-21 | **<1 mg/l** | |
| **Color** | SM 2120 C | AD12412 | 5.0 | 24-Apr-21 | 24-Apr-21 | **30.3 CU** | |
| **Specific Conductance (EC)** | SM 2510B | AD12413 | 0.1 | 24-Apr-21 | 24-Apr-21 | **1130 uS/cm** | |
| **Odor** | SM 2150B | AD12409 | 1 | 24-Apr-21 | 24-Apr-21 | **<1 T.O.N.** | |
| **Temperature** | SM 2550 | AD12407 | | 23-Apr-21 | 23-Apr-21 | **69 °F** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Silver** | EPA 200.8 | AD12721 | 0.2 | 27-Apr-21 | 28-Apr-21 | **<0.2 ug/l** | |
| **Aluminum** | EPA 200.8 | AD12721 | 5.0 | 27-Apr-21 | 28-Apr-21 | **20 ug/l** | |
| **Fluoride** | EPA 300.0 | AD12820 | 0.10 | 28-Apr-21 | 29-Apr-21 | **1.57 mg/l** | |
| **Arsenic** | EPA 200.8 | AD12721 | 0.2 | 27-Apr-21 | 28-Apr-21 | **2.1 ug/l** | |
| **Barium** | EPA 200.8 | AD12721 | 0.5 | 27-Apr-21 | 28-Apr-21 | **16 ug/l** | |
| **Beryllium** | EPA 200.8 | AD12721 | 0.2 | 27-Apr-21 | 28-Apr-21 | **<0.2 ug/l** | |
| **Calcium** | EPA 200.7 | AD12720 | 0.10 | 27-Apr-21 | 29-Apr-21 | **38.9 mg/l** | |
| **Cadmium** | EPA 200.8 | AD12721 | 0.2 | 27-Apr-21 | 28-Apr-21 | **<0.2 ug/l** | |
| **Chromium - Total** | EPA 200.8 | AD12721 | 0.2 | 27-Apr-21 | 28-Apr-21 | **3.3 ug/l** | |
| **Copper** | EPA 200.8 | AD12721 | 0.2 | 27-Apr-21 | 28-Apr-21 | **1.5 ug/l** | |
| **Cyanide (total)** | SM 4500-CN-E | AD12630 | 0.0040 | 26-Apr-21 | 26-Apr-21 | **0.0190 mg/l** | |
| **Iron** | EPA 200.7 | AD12720 | 0.02 | 27-Apr-21 | 29-Apr-21 | **0.05 mg/l** | |
| **Mercury** | EPA 245.1 | AD12930 | 0.20 | 29-Apr-21 | 29-Apr-21 | **<0.20 ug/l** | |
| **Magnesium** | EPA 200.7 | AD12720 | 0.10 | 27-Apr-21 | 29-Apr-21 | **19.4 mg/l** | |
| **Manganese** | EPA 200.8 | AD12721 | 0.5 | 27-Apr-21 | 28-Apr-21 | **52 ug/l** | |
| **Nickel** | EPA 200.8 | AD12721 | 0.5 | 27-Apr-21 | 28-Apr-21 | **4.0 ug/l** | |
| **Lead** | EPA 200.8 | AD12721 | 0.2 | 27-Apr-21 | 28-Apr-21 | **<0.2 ug/l** | |

Respectfully Submitted,

Steve Jefferson 7/13/2021
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 13-Jul-21 15:37
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0536-01) Collected: 23-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12406 | 0.1 | 23-Apr-21 | 23-Apr-21 | **7.7 pH Units** | A-01 |
| **Antimony** | EPA 200.8 | AD12721 | 1.0 | 27-Apr-21 | 28-Apr-21 | **1.6 ug/l** | |
| **Selenium** | EPA 200.8 | AD12721 | 2.0 | 27-Apr-21 | 28-Apr-21 | **<2.0 ug/l** | |
| **Thallium** | EPA 200.8 | AD12721 | 1.0 | 27-Apr-21 | 28-Apr-21 | **<1.0 ug/l** | |
| **Uranium** | EPA 200.8 | AD12721 | 0.7 | 27-Apr-21 | 28-Apr-21 | **<0.7 pCi/L** | |
| **Zinc** | EPA 200.8 | AD12721 | 1.0 | 27-Apr-21 | 28-Apr-21 | **35 ug/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **MBAS** | SM 5540 C | AD12416 | 0.08 | 24-Apr-21 | 25-Apr-21 | **0.51 mg/l** | |
| ***Volatile Organic Chemicals (VOCs)*** | | | | | | | |
| **Benzene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Carbon tetrachloride** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,2-Dichlorobenzene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,4-Dichlorobenzene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,1-Dichloroethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,2-Dichloroethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,1-Dichloroethylene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **cis-1,2-Dichloroethylene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **trans-1,2-Dichloroethylene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Methylene chloride (Dichloromethane)** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,2-Dichloropropane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **cis-1,3-Dichloropropene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **trans-1,3-Dichloropropene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Ethylbenzene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Methyl tert-butyl ether** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Chlorobenzene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Styrene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |

Respectfully Submitted,

Steve Jefferson 7/13/2021
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 13-Jul-21 15:37
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0536-01) Collected: 23-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Volatile Organic Chemicals (VOCs)*** | | | | | | | |
| **1,1,2,2-Tetrachloroethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Tetrachloroethylene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Toluene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,2,4-Trichlorobenzene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,1,1-Trichloroethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,1,2-Trichloroethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Trichloroethylene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Trichlorofluoromethane (Freon 11)** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Vinyl chloride** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **m,p-Xylene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **o-Xylene** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Bromodichloromethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **6.7 ug/l** | |
| **Bromoform** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **<0.5 ug/l** | |
| **Chloroform** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **12.7 ug/l** | |
| **Dibromochloromethane** | EPA 524.2 | AD12735 | 0.5 | 27-Apr-21 | 27-Apr-21 | **1.2 ug/l** | |
| *Surrogate: Bromofluorobenzene* | EPA 524.2 | AD12735 | | 27-Apr-21 | 27-Apr-21 | *93.9 % (80-120)* | |
| *Surrogate: Dibromofluoromethane* | EPA 524.2 | AD12735 | | 27-Apr-21 | 27-Apr-21 | *107 % (80-120)* | |
| *Surrogate: Toluene-d8* | EPA 524.2 | AD12735 | | 27-Apr-21 | 27-Apr-21 | *99.4 % (80-120)* | |
| ***Disinfection Byproducts*** | | | | | | | |
| **Monochloroacetic Acid** | EPA 552.2 | AE10720 | 1.00 | 07-May-21 | 14-May-21 | **4.87 ug/l** | |
| **Dichloroacetic Acid** | EPA 552.2 | AE10720 | 1.00 | 07-May-21 | 14-May-21 | **12.5 ug/l** | |
| **Trichloroacetic Acid** | EPA 552.2 | AE10720 | 1.00 | 07-May-21 | 14-May-21 | **5.10 ug/l** | |
| **Monobromoacetic Acid** | EPA 552.2 | AE10720 | 1.00 | 07-May-21 | 14-May-21 | **<1.00 ug/l** | |
| **Dibromoacetic Acid** | EPA 552.2 | AE10720 | 1.00 | 07-May-21 | 14-May-21 | **<1.00 ug/l** | |
| *Surrogate: 2,3-Dibromopropionic Acid* | EPA 552.2 | AE10720 | | 07-May-21 | 14-May-21 | *97.7 % (60-140)* | |
| **Bromate** | EPA 300.1 | AE11411 | 25.0 | 14-May-21 | 14-May-21 | **<25.0 ug/l** | |

Respectfully Submitted,



Steve Jefferson 7/13/2021
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 13-Jul-21 15:37
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0536-01) Collected: 23-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Disinfection Byproducts*** | | | | | | | |
| **Chlorite** | EPA 300.1 | AE11411 | 100 | 14-May-21 | 14-May-21 | **<100 ug/l** | |
| **Haloacetic Acids (HAA5)** | [CALC] | [CALC] | 1.00 | 27-Apr-21 | 14-May-21 | **23.2 ug/l** | |
| **Total Trihalomethanes** | [CALC] | [CALC] | 2.00 | 27-Apr-21 | 27-Apr-21 | **20.6 ug/l** | |
| ***Synthetic Organic Chemicals (SOCs)*** | | | | | | | |
| **1,2-Dibromo-3-Chloropropane (DBCP)** | EPA 504.1 | AE10716 | 0.010 | 07-May-21 | 07-May-21 | **<0.010 ug/l** | |
| **Ethylene Dibromide (EDB)** | EPA 504.1 | AE10716 | 0.020 | 07-May-21 | 07-May-21 | **<0.020 ug/l** | |
| **Di(2-ethylhexyl)adipate** | EPA 506 | AD12718 | 2.0 | 27-Apr-21 | 07-May-21 | **<2.0 ug/l** | |
| **Di(2-ethylhexyl)phthalate** | EPA 506 | AD12718 | 2.0 | 27-Apr-21 | 07-May-21 | **<2.0 ug/l** | |
| *Surrogate: o-Terphenyl* | EPA 506 | AD12718 | | 27-Apr-21 | 07-May-21 | *70.4 % (50-120)* | |
| **Alachlor** | EPA 507 | AD12926 | 0.2 | 29-Apr-21 | 06-May-21 | **<0.2 ug/l** | |
| **Atrazine** | EPA 507 | AD12926 | 0.2 | 29-Apr-21 | 06-May-21 | **<0.2 ug/l** | |
| **Molinate** | EPA 507 | AD12926 | 0.2 | 29-Apr-21 | 06-May-21 | **<0.2 ug/l** | |
| **Simazine** | EPA 507 | AD12926 | 0.2 | 29-Apr-21 | 06-May-21 | **<0.2 ug/l** | |
| **Thiobencarb (Bolero)** | EPA 507 | AD12926 | 0.2 | 29-Apr-21 | 06-May-21 | **<0.2 ug/l** | |
| *Surrogate: 1,3-Dimethyl-2-nitrobenzene* | EPA 507 | AD12926 | | 29-Apr-21 | 06-May-21 | *66.6 % (40-120)* | |
| **Chlordane** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Endrin** | EPA 508 | AD12927 | 0.01 | 29-Apr-21 | 06-May-21 | **<0.01 ug/l** | |
| **Heptachlor** | EPA 508 | AD12927 | 0.01 | 29-Apr-21 | 06-May-21 | **<0.01 ug/l** | |
| **Heptachlor Epoxide** | EPA 508 | AD12927 | 0.01 | 29-Apr-21 | 06-May-21 | **<0.01 ug/l** | |
| **Hexachlorobenzene** | EPA 508 | AD12927 | 0.01 | 29-Apr-21 | 06-May-21 | **<0.01 ug/l** | |
| **Hexachlorocyclopentadiene** | EPA 508 | AD12927 | 0.01 | 29-Apr-21 | 06-May-21 | **<0.01 ug/l** | |
| **gamma-BHC (Lindane)** | EPA 508 | AD12927 | 0.01 | 29-Apr-21 | 06-May-21 | **<0.01 ug/l** | |
| **Methoxychlor** | EPA 508 | AD12927 | 0.05 | 29-Apr-21 | 06-May-21 | **<0.05 ug/l** | |
| **Aroclor 1016 (PCB)** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Aroclor 1221 (PCB)** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Aroclor 1232 (PCB)** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |

Respectfully Submitted,

Steve Jefferson 7/13/2021
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 13-Jul-21 15:37
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0536-01) Collected: 23-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Synthetic Organic Chemicals (SOCs)*** | | | | | | | |
| **Aroclor 1242 (PCB)** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Aroclor 1248 (PCB)** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Aroclor 1254 (PCB)** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Aroclor 1260 (PCB)** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Total PCBs** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| **Toxaphene** | EPA 508 | AD12927 | 0.1 | 29-Apr-21 | 06-May-21 | **<0.1 ug/l** | |
| *Surrogate: Tetrachloro-m-xylene* | EPA 508 | AD12927 | | 29-Apr-21 | 06-May-21 | *50.5 % (50-120)* | |
| *Surrogate: Decachlorobiphenyl* | EPA 508 | AD12927 | | 29-Apr-21 | 06-May-21 | *61.0 % (50-120)* | |
| **Bentazon** | EPA 515.1 | AE10721 | 1.0 | 07-May-21 | 20-May-21 | **<1.0 ug/l** | |
| **2,4-D** | EPA 515.1 | AE10721 | 1.0 | 07-May-21 | 20-May-21 | **<1.0 ug/l** | |
| **Dalapon** | EPA 515.1 | AE10721 | 5.0 | 07-May-21 | 20-May-21 | **<5.0 ug/l** | |
| **Dinoseb** | EPA 515.1 | AE10721 | 1.0 | 07-May-21 | 20-May-21 | **<1.0 ug/l** | |
| **Pentachlorophenol (PCP)** | EPA 515.1 | AE10721 | 0.1 | 07-May-21 | 20-May-21 | **<0.1 ug/l** | |
| **Picloram** | EPA 515.1 | AE10721 | 1.0 | 07-May-21 | 20-May-21 | **<1.0 ug/l** | |
| **2,4,5-TP** | EPA 515.1 | AE10721 | 0.2 | 07-May-21 | 20-May-21 | **<0.2 ug/l** | |
| *Surrogate: 2,4-DCAA* | EPA 515.1 | AE10721 | | 07-May-21 | 20-May-21 | *112 % (60-140)* | |
| **Benzo (a) pyrene** | EPA 550 | AD12719 | 0.05 | 27-Apr-21 | 14-May-21 | **<0.05 ug/l** | |
| *Surrogate: Decafluorobiphenyl* | EPA 550 | AD12719 | | 27-Apr-21 | 14-May-21 | *66.9 % (45-120)* | |
| **Carbofuran** | EPA 8321A | AD13018 | 1.0 | 30-Apr-21 | 13-May-21 | **<1.0 ug/l** | |
| **Oxamyl** | EPA 8321A | AD13018 | 2.0 | 30-Apr-21 | 13-May-21 | **<2.0 ug/l** | |
| *Surrogate: Atrazine* | EPA 8321A | AD13018 | | 30-Apr-21 | 13-May-21 | *82.6 % (60-140)* | |

Respectfully Submitted,

Steve Jefferson 7/13/2021
Laboratory Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 13-Jul-21 15:37
Subject: (MCC) Quarterly EFF

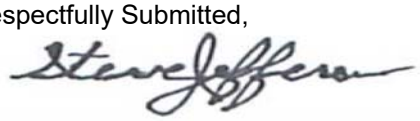
Project/P.O.#: (MCC) Quarterly EFF

## Notes and Definitions

A-01 Langelier Index = 0.3 (Non-Corrosive)

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 7/13/2021
Laboratory Director

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

May 3, 2021 Ceres ID: 14311

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

The following report contains the results for the one waste water sample received on April 28, 2021. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

This work was authorized under Pat-Chem Laboratories' Project # 21D0536.

**Continuing Calibration Verification (CCV) Requirements**
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

# Section I: Sample Inventory

| Ceres Sample ID: | Sample ID | Date Received | Collection Date | &Time |
|---|---|---|---|---|
| 14311-001 | 21D0536-01 | 4/28/2021 | 4/23/2021 | 11:10 |

# Section II: Data Summary

CERES Analytical Laboratory, Inc.
4919 Windplay Dr.Suite 1, El Dorado Hills, CA 95762

# EPA Method 1613B

| | | |
|---|---|---|
| **Quality Assurance Sample**<br>**Method Blank** | | **Date Received:** NA |
| | **QC Batch #:** 2377 | **Date Extracted:** 4/30/2021 |
| | **Matrix:** Waste Water | **ZB-5MS Analysis:** 5/1/2021 |
| **Project ID:** 21D0536 | **Sample Size:** 1.000 L | |

| Analyte | Conc. (pg/L) | MDL | RL | Qual. | Labeled Standards | % R | LCL-UCL (a) | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-TCDD | DL= 3.22 | 0.772 | 5.00 | | 13C-2378-TCDD | 71.7 | 31-137 | |
| | | | | | **CRS** | | | |
| | | | | | 37Cl4-2378-TCDD | 87.8 | 35-197 | |

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

**Analyst: JMH** **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

# EPA Method 1613B

| | | |
|---|---|---|
| **Quality Assurance Sample**<br>**Ongoing Precision and Recovery** | | **Date Received:** NA |
| | **QC Batch #:** 2377 | **Date Extracted:** 4/30/2021 |
| | **Matrix:** Waste Water | **ZB-5MS Analysis:** 5/1/2021 |
| **Project ID:** 21D0536 | **Sample Size:** 1.000 L | |

| Analyte | Conc. (ng/mL) | Limits (a) | Labeled Standards | % Rec. | Limits (a) |
|---|---|---|---|---|---|
| 2,3,7,8-TCDD | 9.18 | 7.3-14.6 | 13C-2378-TCDD | 77.4 | 25-141 |
| | | | **CRS** | | |
| | | | 37Cl4-2378-TCDD | 98.7 | 37-158 |

(a) Limits based on method acceptance criteria.

**Analyst: JMH** **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr.Suite 1, El Dorado Hills, CA 95762

# EPA Method 1613B

| | | |
|---|---|---|
| **Client Sample ID:** 21D0536-01 | | |
| **Project ID:** 21D0536 | **Ceres Sample ID:** 14311-001 | **Date Received:** 4/28/2021 |
| | **QC Batch #:** 2377 | **Date Extracted:** 4/30/2021 |
| **Date Collected:** 4/23/2021 | **Matrix:** Waste Water | **ZB-5MS Analysis:** 5/1/2021 |
| **Time Collected:** 11:10 | **Sample Size:** 0.959 L | |

| Analyte | Conc. (pg/L) | MDL | RL | Qual. | Labeled Standards | % R | LCL-UCL (a) | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-TCDD | DL= 2.40 | 0.772 | 5.21 | | 13C-2378-TCDD | 54.8 | 31-137 | |
| | | | | | **CRS** | | | |
| | | | | | 37Cl4-2378-TCDD | 120 | 42-164 | |

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

**Analyst: JMH** **Reviewed by: BS**

# Section VI: Sample Tracking

# SUBCONTRACT ORDER

**Pat-Chem Laboratories**

**21D0536**

**SENDING LABORATORY:**

Pat-Chem Laboratories
1824 First Street
San Fernando, CA 91340
Phone: 818-639-5300
Fax: 818-639-5306
Project Manager: Stephen Berentsen

**RECEIVING LABORATORY:**

Ceres Analytical Laboratoy, Inc
4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: (888) 932-5011

| Analysis | Due | Expires | Laboratory ID | Comments |
|---|---|---|---|---|
| **Sample ID: 21D0536-01** WASTE **Water** | **Sampled: 23-Apr-21 11:10** | | | **Wastewater/IPC [MCC] EFF-Quarterly** |
| Dioxin 2,3,7,8-TCDD 1613 (Sub) | 10-May-21 12:00 | 30-Apr-21 11:10 | | |
| *Containers Supplied:* | | | | |

| Released By | Date | Received By | Date |
|---|---|---|---|
| [signature] | APR 26 2021 | [signature] | 4/28/21 11:48 |
| | | | |
| Released By | Date | Received By | Date |
| | | | |

LA Testing
520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 322107677
Customer ID: PTCM42
Customer PO:
Project ID:

**Attn:** Steve Berentsen
Pat Chem Laboratories
1824 1st St
San Fernando, CA 91340

Phone: (805) 532-0012
Fax:
Received: 04/23/2021
Analyzed: 05/06/2021

**Proj:** 21D0536

# Test Report: Determination of Asbestos Structures ≥ 0.5 µm & > 10µm in Water Performed by the 100.2 Method (EPA 600/R-94/134)

| Sample ID Client / EMSL | Sample Filtration Date/Time | Original Sample Vol. Filtered (ml) | Effective Filter Area (mm²) | Area Analyzed (mm²) | ASBESTOS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Asbestos Types | Fibers Detected | Analytical Sensitivity | Concentration | Confidence Limits |
| | | | | | | | | MFL (million fibers per liter) | | |
| 21D0536-01<br>322107677-0001 | 4/23/2021<br>03:35 PM | 30 | 1288 | 0.2176 | ≥ 0.5 µm | None Detected | ND | 0.20 | <0.20 | 0.00 - 0.73 |
| | | | | | > 10 µm only | None Detected | ND | 0.20 | <0.20 | 0.00 - 0.73 |

*Collection Date/Time:* *04/23/2021 11:10 AM*

Analyst(s)
Kyeong Corbin (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 05/06/2021 14:36:23

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10um. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

May 18, 2021

**Pat-Chem Laboratories**
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Lab ID : SP 2105478
Customer : 2-12670

## Laboratory Report

**Introduction:** This report package contains total of 7 pages divided into 3 sections:

| | | |
|---|---|---|
| Case Narrative | (2 pages) | : An overview of the work performed at FGL. |
| Sample Results | (2 pages) | : Results for each sample submitted. |
| Quality Control | (3 pages) | : Supporting Quality Control (QC) results. |

## Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab ID # | Matrix |
|---|---|---|---|---|
| 21D0536-01 | 04/23/2021 | 04/23/2021 | SP 2105478-001 | WW |

**Sampling and Receipt Information:** All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

## Radio QC

| | |
|---|---|
| 900.0 | 05/06/2021:206673 All analysis quality controls are within established criteria. |
| | 04/29/2021:204661 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573). |
| 903.0 | 05/11/2021:206953 All analysis quality controls are within established criteria. |
| | 05/05/2021:204543 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573). |
| 906.0 | 05/03/2021:206551 All analysis quality controls are within established criteria. |
| | 05/03/2021:204804 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573). |
| Ra - 05 | 05/15/2021:207212 All analysis quality controls are within established criteria. |
| | 05/09/2021:204959 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573). |



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CA ELAP Certification No. 2810

May 18, 2021 Lab ID : SP 2105478
**Pat-Chem Laboratories** Customer : 2-12670

## Inorganic - Wet Chemistry QC

| | |
|---|---|
| 314.0 | 05/06/2021:206738 All analysis quality controls are within established criteria, except:<br>The following note applies to Perchlorate:<br>360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted. |
| | 05/05/2021:205006 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573). |

**Certification::** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2021-05-18

May 18, 2021

**Pat-Chem Laboratories**
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 21D0536-01
Project : 21D0536

Lab ID : SP 2105478-001
Customer ID : 2-12670

Sampled On : April 23, 2021-11:10
Sampled By : Not Available
Received On : April 23, 2021-17:02
Matrix : Waste Water

## Sample Result - Inorganic

| Constituent | Result | PQL | Units | Note | Sample Preparation | | Sample Analysis | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Method | Date/ID | Method | Date/ID |
| **Wet Chemistry** | | | | | | | | |
| Perchlorate | ND | 4 | ug/L | | 314.0 | 05/05/21:205006 | 314.0 | 05/06/21:206738 |

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.



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May 18, 2021

**Pat-Chem Laboratories**
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 21D0536-01
Project : 21D0536

Lab ID : SP 2105478-001
Customer ID : 2-12670

Sampled On : April 23, 2021-11:10
Sampled By : Not Available
Received On : April 23, 2021-17:02
Matrix : Waste Water

## Sample Result - Radio

| Constituent | Result ± Error | MDA | Units | MCL/AL | Sample Preparation Method | Sample Preparation Date/ID | Sample Analysis Method | Sample Analysis Date/ID |
|---|---|---|---|---|---|---|---|---|
| **Radio Chemistry** | | | | | | | | |
| Gross Alpha | 3.92 ± 1.08 | 1.30 | pCi/L | 15/5 | 900.0 | 04/29/21-08:00 2P2104661 | 900.0 | 05/06/21-08:50 2A2106673 |
| Gross Beta | 5.01 ± 0.837 | 0.922 | pCi/L | 50 | 900.0 | 04/29/21-08:00 2P2104661 | 900.0 | 05/06/21-08:50 2A2106673 |
| Total Alpha Radium (226) | 0.166 ± 0.180 | 0.407 | pCi/L | | 903.0 | 05/05/21-18:00 2P2104543 | 903.0 | 05/11/21-13:32 2A2106953 |
| Tritium | 621 ± 282 | 434 | pCi/L | 20000 | 906.0 | 05/03/21-07:35 2P2104804 | 906.0 | 05/03/21-23:10 2A2106551 |
| Ra 228 | 0.000 ± 0.463 | 0.400 | pCi/L | | Ra - 05 | 05/09/21-18:30 2P2104959 | Ra - 05 | 05/15/21-16:10 2A2107212 |

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



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May 18, 2021 Lab ID : SP 2105478
**Pat-Chem Laboratories** Customer : 2-12670

## Quality Control - Inorganic

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|---|---|---|---|---|---|---|---|---|
| **Wet Chem** | | | | | | | | |
| Perchlorate | 314.0 | 05/05/21:205006MCA | Blank | ug/L | | ND | <4 | |
| | | | LCS | ug/L | 25.00 | 103 % | 85-115 | |
| | | | MS | ug/L | 25.00 | 97.9 % | 80-120 | |
| | | (SP 2105377-001) | MSD | ug/L | 25.00 | 96.7 % | 80-120 | |
| | | | MSRPD | ug/L | 25.00 | 1.2% | ≤15 | |
| | 314.0 | 05/06/21:206738MCA | CCB | ppb | | 0.00 | 4.0 | |
| | | | CCV | ppb | 20.00 | 104 % | 85-115 | |
| | | | CCB | ppb | | 0.00 | 4.0 | |
| | | | CCV | ppb | 10.00 | 117 % | 85-115 | 360 |

**Definition**

| | |
|---|---|
| CCV | : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria. |
| CCB | : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria. |
| Blank | : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples. |
| LCS | : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery. |
| MS | : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. |
| MSD | : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. |
| MSRPD | : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis. |
| ND | : Non-detect - Result was below the DQO listed for the analyte. |
| DQO | : Data Quality Objective - This is the criteria against which the quality control data is compared. |

**Explanation**

| | |
|---|---|
| 360 | : CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted. |



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May 18, 2021 Lab ID : SP 2105478
**Pat-Chem Laboratories** Customer : 2-12670

## Quality Control - Radio

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|---|---|---|---|---|---|---|---|---|
| **Radio** | | | | | | | | |
| Alpha | 900.0 | 05/06/21:206673JCA | CCV | cpm | 7430 | 41.3 % | 35-47 | |
| | | | CCB | cpm | | 0.100 | 0.15 | |
| Beta | 900.0 | 05/06/21:206673JCA | CCV | cpm | 7430 | 94.3 % | 83-94 | |
| | | | CCB | cpm | | 0.4000 | 0.54 | |
| Gross Alpha | 900.0 | 04/29/21:204661jca | Blank | pCi/L | | 1.13 | 3 | |
| | | | LCS | pCi/L | 201.1 | 77.7 % | 75-125 | |
| | | | MS | pCi/L | 201.1 | 85.1 % | 60-140 | |
| | | (SP 2105523-001) | MSD | pCi/L | 201.1 | 87.0 % | 60-140 | |
| | | | MSRPD | pCi/L | 201.1 | 2.1% | ≤30 | |
| Gross Beta | 900.0 | 04/29/21:204661jca | Blank | pCi/L | | 0.75 | 4 | |
| | | | LCS | pCi/L | 35.55 | 105 % | 84-160 | |
| | | | MS | pCi/L | 35.55 | 107 % | 80-130 | |
| | | (SP 2105523-001) | MSD | pCi/L | 35.55 | 108 % | 80-130 | |
| | | | MSRPD | pCi/L | 201.1 | 0.8% | ≤30 | |
| Alpha | 903.0 | 05/11/21:206953JCA | CCV | cpm | 7760 | 40.3 % | 37-46 | |
| | | | CCB | cpm | | 0.100 | 0.16 | |
| Total Alpha Radium (226) | 903.0 | 05/05/21:204543emv | RgBlk | pCi/L | | 0.06 | 2 | |
| | | | LCS | pCi/L | 23.31 | 81.1 % | 52-107 | |
| | | | BS | pCi/L | 23.31 | 75.1 % | 43-111 | |
| | | | BSD | pCi/L | 23.31 | 74.1 % | 43-111 | |
| | | | BSRPD | pCi/L | 23.31 | 1.4% | ≤35.5 | |
| Tritium | 906.0 | 05/03/21:204804jca | Blank | pCi/L | | 36.86 | <433.74 | |
| | | | LCS | pCi/L | 1595 | 101% | 75-125 | |
| | | | BS | pCi/L | 1595 | 96.5% | 75-125 | |
| | | | BSD | pCi/L | 1595 | 97.3% | 75-125 | |
| | | | BSRPD | pCi/L | 1595 | 0.8% | ≤25 | |
| | 906.0 | 05/03/21:206551jca | CCV | cpm | 23240 | 103% | 90-110 | |
| | | | CCB | cpm | | 156 | 500 | |
| Beta | Ra - 05 | 05/15/21:207212emv | CCV | cpm | 7758 | 91.6 % | 84-94 | |
| | | | CCB | cpm | | 0.4000 | 0.51 | |
| Ra 228 | Ra - 05 | 05/09/21:204959emv | RgBlk | pCi/L | | 0.03 | 3 | |
| | | | LRS | pCi/L | 15.04 | 86.1 % | 65-108 | |
| | | | BS | pCi/L | 15.04 | 88.1 % | 75-125 | |
| | | | BSD | pCi/L | 15.04 | 104 % | 75-125 | |
| | | | BSRPD | pCi/L | 15.04 | 2.4 | ≤3 | |

**Definition**

| | |
|---|---|
| CCV | : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria. |
| CCB | : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria. |
| Blank | : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples. |
| RgBlk | : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result. |
| LCS | : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery. |
| LRS | : Laboratory Recovery Standard - Prepared to establish the batch recovery factor used in result calculations. |
| MS | : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. |
| MSD | : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. |
| BS | : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery. |
| BSD | : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery. |
| MSRPD | : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis. |
| BSRPD | : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis. |
| ND | : Non-detect - Result was below the DQO listed for the analyte. |

May 18, 2021 Lab ID : SP 2105478
**Pat-Chem Laboratories** Customer : 2-12670

## Quality Control - Radio

| **Definition** | |
|---|---|
| DQO | : Data Quality Objective - This is the criteria against which the quality control data is compared. |

May 13, 2021

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

**Subject: Subcontract Analyses for FGL Lab No. SP 2105478**

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Contracted-EPA 548 - Endothal
- Sub Contracted-EPA 547 - Glyphosate

Please note that this analysis was performed by Babcock Laboratories, Inc. (ELAP Certified Laboratory)

Thank you for using FGL Environmental.

Sincerely,

**Cindy Aguirre** Digitally signed by Cindy Aguirre
Title: Customer Service Rep
Date: 2021-05-13

Enclosure

BABCOCK Laboratories, Inc.
*The Standard of Excellence for Over 100 Years*

Client Name: FGL Environmental, Inc.
Contact: Cindy Aguirre
Address: 853 Corporation Street
Santa Paula, CA 93060

Report Date: 11-May-2021


Project Name: No Project
Project Number: SP 2105478

**Work Order Number: C1D3230**
Received on Ice (Y/N): Yes Temp: 6 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

## Sample Identification

| Lab Sample # | Client Sample ID | Matrix | Date Sampled | By | Date Submitted | By |
|---|---|---|---|---|---|---|
| C1D3230-01 | 21D0536-01 Composite | Liquid | 04/23/21 11:10 | Client | 04/27/21 10:50 | GLS |

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119

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Client Name: FGL Environmental, Inc.
Contact: Cindy Aguirre
Address: 853 Corporation Street
Santa Paula, CA 93060

Report Date: 11-May-2021


Project Name: No Project
Project Number: SP 2105478

**Work Order Number: C1D3230**
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number
**C1D3230-01**

| Sample Description | Matrix | Sampled Date/Time | Received Date/Time |
|---|---|---|---|
| 21D0536-01 | Liquid | 04/23/21 11:10 | 04/27/21 10:50 |

| Analyte(s) | Result | RDL | Units | Method | Analysis Date | Analyst | Flag |
|---|---|---|---|---|---|---|---|
| Glyphosate by EPA 547 | | | | | | | |
| Glyphosate | ND | 25 | ug/L | EPA 547 | 05/05/21 19:25 | MOF | |
| Endothall by EPA 548.1 | | | | | | | |
| Endothall | ND | 45 | ug/L | EPA 548.1 | 05/04/21 09:22 | NAA | NLOhND |

Client Name: FGL Environmental, Inc.
Contact: Cindy Aguirre
Address: 853 Corporation Street
Santa Paula, CA 93060

Report Date: 11-May-2021


Project Name: No Project
Project Number: SP 2105478

**Work Order Number: C1D3230**
Received on Ice (Y/N): Yes Temp: 6 °C

## Glyphosate by EPA 547 - Batch Quality Control

| Analyte(s) | Result | RDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1E05132 - None** | | | | | | | | | | |
| **Blank (1E05132-BLK1)** | | | | Prepared & Analyzed: 05/05/21 | | | | | | |
| Glyphosate | ND | 25 | ug/L | | | | | | | |
| **LCS (1E05132-BS1)** | | | | Prepared & Analyzed: 05/05/21 | | | | | | |
| Glyphosate | 101 | 25 | ug/L | 100 | | 101 | 77-129 | | | |
| **LCS Dup (1E05132-BSD1)** | | | | Prepared & Analyzed: 05/05/21 | | | | | | |
| Glyphosate | 199 | 25 | ug/L | 200 | | 100 | 77-129 | 0.9 | 30 | |
| **Matrix Spike (1E05132-MS1)** | | **Source: C1D3206-01** | | Prepared & Analyzed: 05/05/21 | | | | | | |
| Glyphosate | 99.4 | 25 | ug/L | 100 | ND | 99 | 65-146 | | | |
| **Matrix Spike Dup (1E05132-MSD1)** | | **Source: C1D3206-01** | | Prepared & Analyzed: 05/05/21 | | | | | | |
| Glyphosate | 99.7 | 25 | ug/L | 100 | ND | 100 | 65-146 | 0.3 | 40 | |

Client Name: FGL Environmental, Inc.
Contact: Cindy Aguirre
Address: 853 Corporation Street
Santa Paula, CA 93060

Report Date: 11-May-2021


Project Name: No Project
Project Number: SP 2105478

**Work Order Number: C1D3230**
Received on Ice (Y/N): Yes Temp: 6 °C

## Endothall by EPA 548.1 - Batch Quality Control

| Analyte(s) | Result | RDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1D30024 - SPE** | | | | | | | | | | |
| **Blank (1D30024-BLK1)** | | | | Prepared: 04/30/21 Analyzed: 05/04/21 | | | | | | |
| Endothall | ND | 45 | ug/L | | | | | | | |
| **LCS (1D30024-BS1)** | | | | Prepared: 04/30/21 Analyzed: 05/04/21 | | | | | | |
| Endothall | 897 | 45 | ug/L | 500 | | 179 | 17-115 | | | QLout |
| **LCS Dup (1D30024-BSD1)** | | | | Prepared: 04/30/21 Analyzed: 05/04/21 | | | | | | |
| Endothall | 888 | 45 | ug/L | 500 | | 178 | 17-115 | 1 | 50 | QLout |
| **Matrix Spike (1D30024-MS1)** | | **Source: C1D3230-01** | | Prepared: 04/30/21 Analyzed: 05/04/21 | | | | | | |
| Endothall | 801 | 45 | ug/L | 500 | ND | 160 | 24-160 | | | |
| **Matrix Spike Dup (1D30024-MSD1)** | | **Source: C1D3230-01** | | Prepared: 04/30/21 Analyzed: 05/04/21 | | | | | | |
| Endothall | 774 | 45 | ug/L | 500 | ND | 155 | 24-160 | 3 | 55 | |

Client Name: FGL Environmental, Inc.
Contact: Cindy Aguirre
Address: 853 Corporation Street
Santa Paula, CA 93060

Report Date: 11-May-2021


Project Name: No Project
Project Number: SP 2105478

**Work Order Number: C1D3230**
Received on Ice (Y/N): Yes Temp: 6 °C

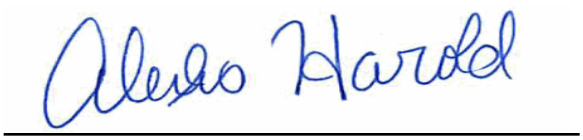
**Notes and Definitions**

| | |
|---|---|
| NLOhND | LCS recovery was above method control limit for this analyte. Analyte not detected, therefore data not impacted. |
| QLout | The LCS and/or LCSD recovery did not meet laboratory acceptance criteria. |
| ND: | Analyte NOT DETECTED at or above the Method Detection Limit **(if MDL is reported)**, otherwise at or above the Reportable Detection Limit (RDL) |
| NR: | Not Reported |
| RDL: | Reportable Detection Limit |
| MDL: | Method Detection Limit |

* / (Non-NELAP): NELAP does not offer accreditation for this analyte/method/matrix combination

**Approval**

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.



**Alexis Nicole Harold For Cindy A. Waddell**

cc:

e-Standard_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

Client Name: FGL Environmental, Inc.
Contact: Cindy Aguirre
Address: 853 Corporation Street
Santa Paula, CA 93060

Report Date: 11-May-2021

Analytical Report: Page 6 of 6
Project Name: No Project
Project Number: SP 2105478

**Work Order Number: C1D3230**
Received on Ice (Y/N): Yes Temp: 6 °C

FGL ENVIRONMENTAL AGRICULTURAL Analytical Chemists

**Subcontract to Babcock Laboratories, Inc.**

***CHAIN OF CUSTODY***
*AND ANALYSES REQUEST FORM*

**Chain of Custody Information**

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2105478**
Purchase Order:

Sampler(s): Not Available

Compositor Setup Date: Time:

| Samp Num | Location Description | Date Sampled | Time Sampled | Method of Sampling: Composite (C) Grab(G) | Type of Sample | Potable(P) Non-Potable(NP) Ag Waiver (AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) | Sub Contracted EPA 348 - Endothal 1000ml(AGT) | Sub Contracted EPA 547 - Glyphosate 1000ml(AGT) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21D0536-01 | 04/23/2021 | 11:10 | C | WW | | | | 1 | 1 |

**Test Description(s)**

6 °C TG #160
On Ice (YES) NO
Samples Intact (YES) NO
TAG#33

Remarks

Relinquished: [signature] Date: 4/26/21 Time: 17:30
Received By: GLS

Relinquished: GLS Date: 04/27/21 Time: 1050
Received By: [signature] ROSEMARIE Date: 04/27/21 Time: 1050

**C1D3230**
Rc'd: 04/27/2021 10:50
EVS

**Corporate Offices & Laboratory**
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

**Office & Laboratory**
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

**Office & Laboratory**
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

**Office & Laboratory**
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

**Office & Laboratory**
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

May 10, 2021

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

**Subject: Subcontract Analysis for FGL Lab No. SP 2105478**

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Contracted-EPA 549 - Diquat

Please note that this analysis was performed by Eurofins Eaton Analytical, Inc. (ELAP Certified Laboratory)

Thank you for using FGL Environmental.

Sincerely,

**Cindy Aguirre** Digitally signed by Cindy Aguirre
Title: Customer Service Rep
Date: 2021-05-10

Enclosure

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

# Laboratory Report

for

FGL Environmental, Inc.
853 Corporation Street
Santa Paula, CA 93060
Attention: Cindy Aguirre
Fax: 805-525-4172

**Date of Issue**
**05/04/2021**

EUROFINS EATON ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 931739
Project: DRINKING
Group: ORGANICS - EPA 500's

WV6M: Rosalynn Dang

Project Manager

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

# STATE CERTIFICATION LIST

| State | Certification Number | State | Certification Number |
|---|---|---|---|
| **Alabama** | 41060 | **Montana** | Cert 0035 |
| **Arizona** | AZ0778 | **Nebraska** | Certified |
| **Arkansas** | Certified | **Nevada** | CA000062018 |
| **California** | 2813 | **New Hampshire *** | 2959 |
| **Colorado** | Certified | **New Jersey *** | CA 008 |
| **Connecticut** | PH-0107 | **New Mexico** | Certified |
| **Delaware** | CA 006 | **New York *** | 11320 |
| **Florida *** | E871024 | **North Carolina** | 06701 |
| **Georgia** | 947 | **North Dakota** | R-009 |
| **Guam** | 18-005R | **Oregon *** | CA200003-005 |
| **Hawaii** | Certified | **Pennsylvania *** | 68-565 |
| **Idaho** | Certified | **Puerto Rico** | Certified |
| **Illinois *** | 200033 | **Rhode Island** | LAO00326 |
| **Indiana** | C-CA-01 | **South Carolina** | 87016 |
| **Iowa - Asbestos** | 413 | **South Dakota** | Certified |
| **Kansas *** | E-10268 | **Tennessee** | TN02839 |
| **Kentucky** | 90107 | **Texas *** | T104704230-18-15 |
| **Louisiana *** | LA180000 | **Utah (Primary AB) *** | CA00006 |
| **Maine** | CA0006 | **Vermont** | VT0114 |
| **Maryland** | 224 | **Virginia *** | 460260 |
| **Commonwealth of Northern Marianas Is.** | MP0004 | **Washington** | C838 |
| **Massachusetts** | M-CA006 | **EPA Region 5** | Certified |
| **Michigan** | 9906 | **Los Angeles County Sanitation Districts** | 10264 |
| **Mississippi** | Certified | | |

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 866-988-3757
www.EurofinsUS.com/Eaton

**The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/A2LA.**
**Refer to Certificate and scope of accreditation (5890) found at: https://www.eurofinsus.com/Eaton**

| SPECIFIC TESTS | METHOD OR TECHNIQUE USED | Environ-mental (Drinking Water) | Environ-mental (Waste Water) | Water as a Component of Food and Bev/Bev/ Bottled Water |
|---|---|---|---|---|
| 1,2,3-TCP (5 PPT & 0.5 PPT) | CA SRL 524M-TCP | x | | x |
| 1,4-Dioxane | EPA 522 | x | | x |
| 2,3,7,8-TCDD | Modified EPA 1613B | x | | x |
| Acrylamide | In House Method (2440) | x | | x |
| Algal Toxins/Microcystin | In House Method (3570) | | | |
| Alkalinity | SM 2320B | x | x | x |
| Ammonia | EPA 350.1 | | x | x |
| Ammonia | SM 4500-NH3 H | | x | x |
| Anions and DBPs by IC | EPA 300.0 | x | x | x |
| Anions and DBPs by IC | EPA 300.1 | x | | x |
| Asbestos | EPA 100.2 | x | x | |
| BOD / CBOD | SM 5210B | | x | x |
| Bromate | In House Method (2447) | x | | x |
| Carbamates | EPA 531.2 | x | | x |
| Carbonate as CO3 | SM 2330B | x | x | x |
| Carbonyls | EPA 556 | x | | x |
| COD | EPA 410.4 / SM 5220D | | x | |
| Chloramines | SM 4500-CL G | x | x | x |
| Chlorinated Acids | EPA 515.4 | x | | x |
| Chlorinated Acids | EPA 555 | x | | x |
| Chlorine Dioxide | SM 4500-CLO2 D Palin Test | x | | x |
| Chlorine -Total/Free/ Combined Residual | SM 4500-Cl G | x | x | x |
| Conductivity | EPA 120.1 | | x | |
| Conductivity | SM 2510B | x | x | x |
| Corrosivity (Langelier Index) | SM 2330B | x | | x |
| Cyanide, Amenable | SM 4500-CN G | x | x | |
| Cyanide, Free | SM 4500CN F | x | x | x |
| Cyanide, Total | EPA 335.4 | x | x | x |
| Cyanogen Chloride (screen) | In House Method (2470) | x | | x |
| Diquat and Paraquat | EPA 549.2 | x | | x |
| DBP/HAA | SM 6251B | x | | x |
| Dissolved Oxygen | SM 4500-O G | | x | x |
| DOC | SM 5310C | x | | x |
| E. Coli | (MTF/EC+MUG) | x | | x |
| E. Coli | CFR 141.21(f)(6)(i) | x | | x |
| E. Coli | SM 9223 | | x | |
| E. Coli (Enumeration) | SM 9221B.1/ SM 9221F | x | | x |
| E. Coli (Enumeration) | SM 9223B | x | | x |
| EDB/DCBP | EPA 504.1 | x | | |
| EDB/DBCP and DBP | EPA 551.1 | x | | x |
| EDTA and NTA | In House Method (2454) | x | | x |
| Endothall | EPA 548.1 | x | | x |
| Endothall | In-house Method (2445) | x | | x |
| Enterococci | SM 9230B | x | x | |
| Fecal Coliform | SM 9221 E (MTF/EC) | x | | |
| Fecal Coliform | SM 9221C, E (MTF/EC) | | x | |
| Fecal Coliform (Enumeration) | SM 9221E (MTF/EC) | x | | x |
| Fecal Coliform with Chlorine Present | SM 9221E | | x | |
| Fecal Streptococci | SM 9230B | x | x | |
| Fluoride | SM 4500-F C | x | x | x |
| Glyphosate | EPA 547 | x | | x |
| Glyphosate + AMPA | In House Method (3618) | x | | x |
| Gross Alpha/Beta | EPA 900.0 | x | x | x |
| Gross Alpha Coprecipitation | SM 7110 C | x | x | x |
| Hardness | SM 2340B | x | x | x |
| Heterotrophic Bacteria | In House Method (2439) | x | | x |
| Heterotrophic Bacteria | SM 9215 B | x | | x |
| Hexavalent Chromium | EPA 218.6 | x | x | x |
| Hexavalent Chromium | EPA 218.7 | x | | x |
| Hexavalent Chromium | SM 3500-Cr B | | x | |
| Hormones | EPA 539 | x | | x |
| Hydroxide as OH Calc. | SM 2330B | x | | x |
| Kjeldahl Nitrogen | EPA 351.2 | | x | |
| Legionella | Legiolert | x | | x |
| Mercury | EPA 200.8 | x | | x |
| Metals | EPA 200.7 / 200.8 | x | x | x |
| Microcystin LR | ELISA (2360) | x | | x |
| Microcystin, Total | EPA 546 | x | | x |
| NDMA | EEA/Agilent 521.1 In house method (2425) | x | | x |
| Nitrate/Nitrite Nitrogen | EPA 353.2 | x | x | x |
| OCL, Pesticides/PCB | EPA 505 | x | | x |
| Ortho Phosphate | EPA 365.1 | x | x | x |
| Ortho Phosphorous | SM 4500P E | x | | x |
| Oxyhalides Disinfection Byproducts | EPA 317.0 | x | | x |
| Perchlorate | EPA 331.0 | x | | x |
| Perchlorate (low and high) | EPA 314.0 | x | | x |
| Perfluorinated Alkyl Acids | EPA 537 | x | | x |
| Perfluorinated Polutant | In house Method (2434) | x | | x |
| pH | EPA 150.1 | x | | |
| pH | SM 4500-H+B | x | x | x |
| Phenylurea Pesticides/ Herbicides | In House Method, based on EPA 532 (2448) | x | | x |
| Pseudomonas | IDEXX Pseudalert (2461) | x | | x |
| Radium-226 | GA Institute of Tech | x | | x |
| Radium-228 | GA Institute of Tech | x | | x |
| Radon-222 | SM 7500RN | x | | x |
| Residue, Filterable | SM 2540C | x | x | x |
| Residue, Non-filterable | SM 2540D | | x | |
| Residue, Total | SM 2540B | | x | x |
| Residue, Volatile | EPA 160.4 | | x | |
| Semi-VOC | EPA 525.2 | x | | x |
| Silica | SM 4500-Si D | x | x | |
| Silica | SM 4500-SiO2 C | x | x | |
| Sulfide | SM 4500-$S^{=}$ D | | x | |
| Sulfite | SM 4500-$SO^{3}$B | x | x | x |
| Surfactants | SM 5540C | x | x | x |
| Taste and Odor Analytes | SM 6040E | x | | x |
| Total Coliform (P/A) | SM 9221 A, B | x | | x |
| Total Coliform (Enumeration) | SM 9221 A, B, C | x | | x |
| Total Coliform / E. coli | Colisure SM 9223 | x | | x |
| Total Coliform | SM 9221B | | x | |
| Total Coliform with Chlorine Present | SM 9221B | | x | |
| Total Coliform / E.coli (P/A and Enumeration) | SM 9223 | x | | x |
| TOC | SM 5310C | x | x | x |
| TOX | SM 5320B | | x | |
| Total Phenols | EPA 420.1 | | x | |
| Total Phenols | EPA 420.4 | x | x | x |
| Total Phosphorous | SM 4500 P E | | x | |
| Triazine Pesticides & Degradates | In House (3617) | x | | x |
| Turbidity | EPA 180.1 | x | x | x |
| Turbidity | SM 2130B | x | x | |
| Uranium by ICP/MS | EPA 200.8 | x | | x |
| UV 254 | SM 5910B | x | | |
| VOC | EPA 524.2 | x | | x |
| VOC | In House Method (2411) | x | | x |
| Yeast and Mold | SM 9610 | x | | x |
| Field Sampling | N/A | | | |

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# Acknowledgement of Samples Received

Addr: **FGL Environmental, Inc.**
853 Corporation Street
Santa Paula, CA 93060

Attn: Cindy Aguirre
Phone: 805-392-2012

Client ID: FGL
Folder #: 931739
Project: DRINKING
Sample Group: ORGANICS - EPA 500's

Project Manager: Rosalynn Dang
Phone: 626-386-1250
PO #: SP2105478

The following samples were received from you on **April 27, 2021** at **1023**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

| Sample # | Sample ID | Sample Date |
|---|---|---|
| 202104270405 | 21D0536-01 | 04/23/2021 1110 |
| | @DIQUAT | |

## Test Description

@DIQUAT -- Diquat and Paraquat


750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

2.1°N ICE

# Subcontract to Eurofins Eaton Analytical, Inc.

931739

**CHAIN OF CUSTODY**
*AND ANALYSES REQUEST FORM*

**Chain of Custody Information**

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2105478**
Purchase Order:

Sampler(s): Not Available

Compositor Setup Date: Time:

| Samp Num | Location Description | Date Sampled | Time Sampled | Method of Sampling: Composite (C) Grab(G) | Type of Sample | Potable(P) Non-Potable(NP) Ag Waiver (AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) | Replace(RPL) Other(O) Special(SPL) | Test Description(s): Sub Contracted-EPA 549 - Diquat 1000ml(AGT) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21D0536-01 | 04/23/2021 | 11:10 | G | WW | | | | | 1 |
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Remarks

| Relinquished | Date | Time | Relinquished | Date | Time | Relinquished | Date | Time |
|---|---|---|---|---|---|---|---|---|
| [signature] | 4/26/21 | 17:30 | | | | | | |
| **Received By:** | **Date** | **Time** | **Received By:** | **Date** | **Time** | **Received By:** | **Date** | **Time** |
| GLS | | | [signature] | 4/27/21 | 1023 | | | |


**Corporate Offices & Laboratory**
853 Corporation Street
Santa Paula, CA 93060
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TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

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# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 931739

**SAMPLE TEMP RECEIVED:**

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

**SAMPLES REC'D DAY OF COLLECTION?** Yes / No

IR Gun ID = 10319 (Observation= 2.1 °C) (Corr.Factor +0.0 °C) (Final = 2.1 °C)

**TYPE OF ICE:** Real ✓ Synthetic _____ No Ice _____ **CONDITION OF ICE:** Frozen ✓ Partially Frozen _____ Thawed _____ N/A _____

**METHOD OF SHIPMENT:** Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: GLS

**Compliance Acceptance Criteria:**

1) **Chemistry:** >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

| | |
|---|---|
| 1 = (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C) | 2 = (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C) |
| 3 = (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C) | 4 = (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C) |

4 **Dioxin (1613 or 2,3,7,8 TCDD):** must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) **pH Check.** Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date _____ Results: _____

6) **Chlorine check.** Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results _____

7) **VOA and Radon Headspace:** **No Samples with Headspace:** ☐ **Samples with Headspace (see below):** ☐

**Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)**

**Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:**

| Samp ID | Bottle # | None/<6 mm | >6mm |
|---|---|---|---|
| | | | |
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| Samp ID | Bottle # | None/<6 mm | >6mm |
|---|---|---|---|
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| Samp ID | Bottle # | None/<6 mm | >6mm |
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| Samp ID | Bottle # | None/<6 mm | >6mm |
|---|---|---|---|
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Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

| | SIGNATURE | PRINT NAME | COMPANY/TITLE | DATE | TIME |
|---|---|---|---|---|---|
| RECEIVED BY: | Chris Brooks | Chris Brooks | Eurofins Eaton Analytical | 4.27.21 | 1023 |

GLS

800-322-5555
www.gls-us.com

**Ship From**
FRUIT GROWERS LABORATORY, INC.
BRANDON QUELL
853 CORPORATION ST
SANTA PAULA, CA 93060

**Ship To**
**EUROFINS EATON ANALYTICAL**
**ATTN: MONICA VANNATTA**
**750 ROYAL OAKS DRIVE STE#100**
**MONROVIA, CA 91016**

**COD:** $0.00
**Weight:** 12 lb(s)
**Reference:**
SP2105478-4/26/21-BQ
**Delivery Instructions:**

**Signature Type:** STANDARD

**Tracking #: 553093147**

**PDS**

## MONROVIA

## S91016A

40885531

# NWK CA906-FD0

Print Date: 4/26/2021 3:48 PM

**LABEL INSTRUCTIONS:**

**Do not copy or reprint this label for additional shipments - each package must have a unique barcode.**
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

**TERMS AND CONDITIONS:**

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

**Laboratory Comments**

**Report:** 931739
**Project:** DRINKING
**Group:** ORGANICS - EPA 500's

FGL Environmental, Inc.
Cindy Aguirre
853 Corporation Street
Santa Paula, CA 93060

---

**Flags Legend:**

QP - Q10-Sample received in an inappropriate sample container.

**The Comments Report may be blank if there are no comments for this report.**

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

**Laboratory Hits**

**Report:** 931739
**Project:** DRINKING
**Group:** ORGANICS - EPA 500's

**FGL Environmental, Inc.**
Cindy Aguirre
853 Corporation Street
Santa Paula, CA 93060

Samples Received on:
04/27/2021 1023

| Analyzed | Analyte | Sample ID | Result | Federal MCL | Units | MRL |
|---|---|---|---|---|---|---|

**SUMMARY OF POSITIVE DATA ONLY**

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

**Laboratory Data**

**Report:** 931739
**Project:** DRINKING
**Group:** ORGANICS - EPA 500's

**FGL Environmental, Inc.**
Cindy Aguirre
853 Corporation Street
Santa Paula, CA 93060

Samples Received on:
04/27/2021 1023

| Prepped | Analyzed | Prep Batch | Analytical Batch | Method | Analyte | Result | Units | MRL | Dilution |
|---|---|---|---|---|---|---|---|---|---|
| **21D0536-01 (202104270405)** | | | | | | | **Sampled on 04/23/2021 1110** | | |
| | | | **EPA 549.2 - Diquat and Paraquat** | | | | | | |
| 04/29/21 | 05/02/21 18:53 | 1324165 | 1324884 | (EPA 549.2) | Diquat | ND (QP) | ug/L | 0.40 | 1 |
| 04/29/21 | 05/02/21 18:53 | 1324165 | 1324884 | (EPA 549.2) | Paraquat | ND (QP) | ug/L | 2.0 | 1 |

Rounding on totals after summation.
(c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

**Laboratory QC Summary**

**Report:** 931739
**Project:** DRINKING
**Group:** ORGANICS - EPA 500's

FGL Environmental, Inc.

---

**Diquat and Paraquat**

**Prep Batch: 1324165** **Analytical Batch: 1324884** **Analysis Date: 05/02/2021**

202104270405 21D0536-01 Analyzed by: XWO

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

**Laboratory QC**

**Report:** 931739
**Project:** DRINKING
**Group:** ORGANICS - EPA 500's

FGL Environmental, Inc.

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield(%) | Limits (%) | RPD Limit(%) | RPD% |
|---|---|---|---|---|---|---|---|---|---|
| **Diquat and Paraquat by EPA 549.2** | | | | | | | | | |
| **Analytical Batch: 1324884** | | | | | | **Analysis Date: 05/02/2021** | | | |
| CCCH | Diquat | | 10 | 10.3 | ug/L | 103 | (80-120) | | |
| CCCL | Diquat | | 0.4 | 0.423 | ug/L | 106 | (50-150) | | |
| CCCM | Diquat | | 4 | 4.11 | ug/L | 103 | (80-120) | | |
| LCS1 | Diquat | | 5 | 4.27 | ug/L | 86 | (70-130) | | |
| MBLK | Diquat | | | <0.4 | ug/L | | | | |
| MRLLW | Diquat | | 0.4 | 0.337 | ug/L | 84 | (50-150) | | |
| MS_202010060559 | Diquat | ND | 5 | 4.58 | ug/L | 92 | (70-130) | | |
| MS2_202104270065 | Diquat | ND | 5 | 4.14 | ug/L | 83 | (70-130) | | |
| MSD_202010060559 | Diquat | ND | 5 | 4.38 | ug/L | 88 | (70-130) | 20 | 4.4 |
| CCCH | Paraquat | | 10 | 9.51 | ug/L | 95 | (80-120) | | |
| CCCL | Paraquat | | 2 | 1.84 | ug/L | 92 | (50-150) | | |
| CCCM | Paraquat | | 4 | 3.56 | ug/L | 89 | (80-120) | | |
| LCS1 | Paraquat | | 5 | 4.12 | ug/L | 82 | (70-130) | | |
| MBLK | Paraquat | | | <2 | ug/L | | | | |
| MRL_CHK | Paraquat | | 2 | 1.74 | ug/L | 87 | (50-150) | | |
| MS_202010060559 | Paraquat | ND | 5 | 4.50 | ug/L | 90 | (70-130) | | |
| MS2_202104270065 | Paraquat | ND | 5 | 3.85 | ug/L | 77 | (70-130) | | |
| MSD_202010060559 | Paraquat | ND | 5 | 4.31 | ug/L | 86 | (70-130) | 20 | 4.3 |

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

May 17, 2021

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

**Subject: Subcontract Analysis for FGL Lab No. SP 2105478**

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Contracted-Strontium 90

Please note that this analysis was performed by Pace Analytical (ELAP Certified Laboratory)

Thank you for using FGL Environmental.

Sincerely,

**Cindy Aguirre** Digitally signed by Cindy Aguirre
Title: Customer Service Rep
Date: 2021-05-17

Enclosure

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 17, 2021

Cindy Aguirre
FGL Environmental, Inc.
853 Corporation St.
Santa Paula, CA 930603005

RE: Project: SP 2105478
Pace Project No.: 30417664

Dear Cindy Aguirre:

Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



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**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## CERTIFICATIONS

Project: SP 2105478
Pace Project No.: 30417664

**Pace Analytical Services Pennsylvania**
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L



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Greensburg, PA 15601
(724)850-5600

## SAMPLE SUMMARY

Project: SP 2105478
Pace Project No.: 30417664

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **30417664001** | **21D0536-01** | Water | 04/23/21 11:10 | 04/26/21 10:15 |

**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## SAMPLE ANALYTE COUNT

Project: SP 2105478
Pace Project No.: 30417664

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **30417664001** | **21D0536-01** | EPA 905.0 | JJY | 1 |

PASI-PA = Pace Analytical Services - Greensburg

**REPORT OF LABORATORY ANALYSIS**

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Greensburg, PA 15601
(724)850-5600

## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: SP 2105478
Pace Project No.: 30417664

**Sample: 21D0536-01** **Lab ID: 30417664001** Collected: 04/23/21 11:10 Received: 04/26/21 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: •

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | | Pace Analytical Services - Greensburg | | | | |
| Strontium-90 | EPA 905.0 | **-0.175 ± 0.438 (1.08) C:102% T:NA** | pCi/L | 05/10/21 08:12 | 10098-97-2 | |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL - RADIOCHEMISTRY

Project: SP 2105478
Pace Project No.: 30417664

QC Batch: 446084
QC Batch Method: EPA 905.0
Analysis Method: EPA 905.0
Analysis Description: 905.0 Strontium 89/90
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30417664001

METHOD BLANK: 2153120 Matrix: Water
Associated Lab Samples: 30417664001

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Strontium-90 | -0.01000 ± 0.187 (0.472) C:110% T:NA | pCi/L | 05/07/21 08:14 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# QUALIFIERS

Project: SP 2105478
Pace Project No.: 30417664

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

# Subcontract to Pace Analytical

## CHAIN OF CUSTODY AND ANALYSES REQUEST FORM

**Chain of Custody Information**

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2105478**
Purchase Order:

Sampler(s): Not Available

Compositor Setup Date: Time:

**Sample Information**

**Test Description(s)**

| Samp Num | Location Description | Date Sampled | Time Sampled | Method of Sampling: Composite (C) Grab(G) | Type of Sample | Potable(P) Non-Potable(NP) Ag Waiver (AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) | Sub Contracted-Strontium 90 Quote: 20200923JRH-1 32oz(P)- HNO3 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21D0536-01 | 04/23/2021 | 11:10 | G | WW | | | | 1 | | | | | | | | 001 |
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**WO# : 30417664**

30417664

Remarks

| Relinquished | Date | Time | Relinquished | Date | Time | Relinquished | Date | Time |
|---|---|---|---|---|---|---|---|---|
| | 4/26/21 | 17:30 | | | | | | |
| **Received By:** | **Date** | **Time** | **Received By:** | **Date** | **Time** | **Received By:** | **Date** | **Time** |
| GLS | 16 | | | | | AJ Hock | 4/26/21 | 10:15 |

**Corporate Offices & Laboratory**
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

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9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

# Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: FGL Project #

WO#: 30417664

PM: JAC Due Date: 05/17/21

CLIENT: FGL

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Label AF

Tracking #: 1Z992031136074026 8

LIMS Login

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used N/A Type of Ice: Wet Blue (None)

Cooler Temperature Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

| Comments: | Yes | No | N/A | pH paper Lot# 1001101 / Date and Initials of person examining contents: 04/27/21 AF |
|---|---|---|---|---|
| Chain of Custody Present: | ✓ | | | 1. |
| Chain of Custody Filled Out: | ✓ | | | 2. |
| Chain of Custody Relinquished: | ✓ | | | 3. |
| Sampler Name & Signature on COC: | | ✓ | | 4. |
| Sample Labels match COC: -Includes date/time/ID Matrix: WT | ✓ | | | 5. |
| Samples Arrived within Hold Time: | ✓ | | | 6. |
| **Short Hold Time Analysis (<72hr remaining):** | | ✓ | | 7. |
| **Rush Turn Around Time Requested:** | | ✓ | | 8. |
| Sufficient Volume: | ✓ | | | 9. |
| Correct Containers Used: | ✓ | | | 10. |
| -Pace Containers Used: | | ✓ | | |
| Containers Intact: | ✓ | | | 11. |
| Orthophosphate field filtered | | | ✓ | 12. |
| Hex Cr Aqueous sample field filtered | | | ✓ | 13. |
| Organic Samples checked for dechlorination: | | | ✓ | 14. |
| Filtered volume received for Dissolved tests | | | ✓ | 15. |
| **All containers have been checked for preservation.** exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | ✓ | | | 16. pH<2 |
| All containers meet method preservation requirements. | ✓ | | | Initial when completed AF / Date/time of preservation / Lot # of added preservative |
| Headspace in VOA Vials ( >6mm): | | | ✓ | 17. |
| Trip Blank Present: | | ✓ | | 18. |
| Trip Blank Custody Seals Present | | | ✓ | |
| **Rad Samples Screened < 0.5 mrem/hr** | ✓ | | | Initial when completed: AF / Date: 4/27/21 / Survey Meter SN: 1503 |

**Client Notification/ Resolution:**

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

☐ **A check in this box indicates that additional information has been stored in ereports.**

**Note:** Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

**SUBCONTRACT ORDER**

**Pat-Chem Laboratories**

**21D0536**

2105478

**SENDING LABORATORY:**

Pat-Chem Laboratories
1824 First Street
San Fernando, CA 91340
Phone: 818-639-5300
Fax: 818-639-5306
Project Manager: Stephen Berentsen

**RECEIVING LABORATORY:**

Fruit Growers - FGL
853 Corporation Street
Santa Paula, CA 93060
Phone :(805) 525-3824
Fax: (805) 525-4172

| Analysis | Due | Expires | Laboratory ID | Comments |
|---|---|---|---|---|
| **Sample ID: 21D0536-01** WASTE Water | **Sampled: 23-Apr-21 11:10** | | | **Wastewater/IPC [MCC] EFF-Quarterly** |
| Tritium (Sub) | 10-May-21 12:00 | 25-Apr-21 11:10 | | |
| Sr-90 (Strontium 90) (Sub) | 10-May-21 12:00 | 20-Oct-21 11:10 | | |
| Radium 226 228 (Sub) | 10-May-21 12:00 | 20-Oct-21 11:10 | | |
| Perchlorate 314.0 (Sub) | 10-May-21 12:00 | 21-May-21 11:10 | | |
| Gross beta SUB | 10-May-21 12:00 | 20-Oct-21 11:10 | | |
| Gross alpha SUB | 10-May-21 12:00 | 20-Oct-21 11:10 | | |
| 549 Diquat (Sub) | 10-May-21 12:00 | 30-Apr-21 11:10 | | |
| 548.1 Endothall (Sub) | 10-May-21 12:00 | 30-Apr-21 11:10 | | |
| 547 Glyphosate (Sub) | 10-May-21 12:00 | 07-May-21 11:10 | | |
| *Containers Supplied:* | | | | |

| Released By | Date | Received By | Date |
|---|---|---|---|
| | APR 23 2021 | | |
| Released By | Date | Received By | Date |

10C

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

# Subcontract to Pace Analytical

## *CHAIN OF CUSTODY*
*AND ANALYSES REQUEST FORM*

**Chain of Custody Information**

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2105478**
Purchase Order:

Sampler(s): Not Available

Compositor Setup Date: Time:

**Sample Information**

**Test Description(s)**

| Samp Num | Location Description | Date Sampled | Time Sampled | Method of Sampling: Composite (C) Grab(G) | Type of Sample | Potable(P) Non-Potable(NP) Ag Waiver (AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) | Sub Contracted-Strontium 90 Quote: 20200923JRH-1 32oz(P)- HNO3 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21D0536-01 | 04/23/2021 | 11:10 | G | WW | | | | 1 | | | | | | | | |
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| Remarks | Relinquished | Date | Time | Relinquished | Date | Time | Relinquished | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | Received By: | Date | Time | Received By: | Date | Time | Received By: | Date | Time |


**Corporate Offices & Laboratory**
853 Corporation Street
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TEL: (805)392-2000
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FAX: (209)942-0423
CA ELAP Certification No. 1563

**Office & Laboratory**
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FAX: (530)343-3807
CA ELAP Certification No. 2670

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CA ELAP Certification No. 2775

**Office & Laboratory**
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TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

# Subcontract to Babcock Laboratories, Inc.

## *CHAIN OF CUSTODY*
*AND ANALYSES REQUEST FORM*

**Chain of Custody Information**

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2105478**
Purchase Order:

Sampler(s): Not Available

Compositor Setup Date: Time:

| Samp Num | Location Description | Date Sampled | Time Sampled | Method of Sampling: Composite (C) Grab(G) | Type of Sample | Potable(P) Non-Potable(NP) Ag Waiver (AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) | Sub Contracted-EPA 548 - Endothal 1000ml(AGT) | Sub Contracted-EPA 547 - Glyphosate 1000ml(AGT) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21D0536-01 | 04/23/2021 | 11:10 | G | WW | | | | 1 | 1 | | | | | | | |
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**Test Description(s)**

| Remarks | Relinquished | Date | Time | Relinquished | Date | Time | Relinquished | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | Received By: | Date | Time | Received By: | Date | Time | Received By: | Date | Time |


**Corporate Offices & Laboratory**
853 Corporation Street
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FAX: (209)942-0423
CA ELAP Certification No. 1563

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FAX: (530)343-3807
CA ELAP Certification No. 2670

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FAX: (805)783-2912
CA ELAP Certification No. 2775

**Office & Laboratory**
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TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

# Subcontract to
# Eurofins Eaton Analytical, Inc.

## *CHAIN OF CUSTODY*
*AND ANALYSES REQUEST FORM*

**Chain of Custody Information**

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2105478**
Purchase Order:

Sampler(s): Not Available

Compositor Setup Date: Time:

| Samp Num | Location Description | Date Sampled | Time Sampled | Method of Sampling: Composite (C) Grab(G) | Type of Sample | Potable(P) Non-Potable(NP) Ag Waiver (AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) | Test Description(s): Sub Contracted-EPA 549 - Diquat 1000ml(AGT) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21D0536-01 | 04/23/2021 | 11:10 | G | WW | | | | 1 | | | | | | | | |
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Remarks

| Relinquished | Date | Time | Relinquished | Date | Time | Relinquished | Date | Time |
|---|---|---|---|---|---|---|---|---|
| Received By: | Date | Time | Received By: | Date | Time | Received By: | Date | Time |


**Corporate Offices & Laboratory**
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

**Office & Laboratory**
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

**Office & Laboratory**
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

**Office & Laboratory**
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

**Office & Laboratory**
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

# Condition Upon Receipt (Attach to COC)

**Sample Receipt at SP:**

1. Number of ice chests/packages received: **OTC**
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition?
   Temps: **ROI** / **10C** / _____ / _____ / _____ / _____ / _____
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? **Yes** **No** **N/A**
6. Verify sample date, time, sampler **Yes** **No** **N/A**
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) **Yes** **No**
8. Were sample custody seals intact? **Yes** **No** **N/A**

**Sample Verification, Labeling and Distribution:**

1. Were all requested analyses understood and acceptable? **Yes** **No**
2. Did bottle labels correspond with the client's ID's? **Yes** **No**
3. Were all bottles requiring sample preservation properly preserved? **Yes** **No** **N/A** **FGL**
   [Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? **Yes** **No** **N/A**
5. Were all analyses within holding times at time of receipt? **Yes** **No**
6. Have rush or project due dates been checked and accepted? **Yes** **No** **N/A**

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by:

Reviewed and Approved By **Shawn Peck** Digitally signed by Shawn Peck
Title: Sample Receiving
Date: 04/26/2021-08:32:37

**Discrepency Documentation:**

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

2. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

(2012670)
Pat-Chem Laboratories
**SP 2105478**
SRP-04/26/2021-08:32:37

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0536

Customer: IPC - Integrated Performance Consultants, Inc.
Project: (MCC) EFF - Quarterly


Address: 9297 Research Drive
Irvine CA 92618
Sampled by: Mario Aguirre
Report Attention: Ric Vardel / Golan Kfir
P.O. #:
Phone #: 949-382-9067

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/23/21 | 11:10 | 1 | Ag, Al, As, Ba, Be, Ca, Cd, Cr, Cu, Fe, Mn, Hg, Ni, Sb, Se, Tl, U, Zn | Grab | AQ | 1L P | HN | 7.7/20.6 |
| " | " | " | 1 | Fluoride, Bromate, Chlorite, Color, Odor, pH, Conductivity, Alkalinity, Temperature | Grab | AQ | 1/2 Gal. P | 4°C | |
| " | " | " | 1 | Cyanide | Grab | AQ | 250 P | OH, AA | |
| " | " | " | 1 | MBAS | Grab | AQ | 500 P | 4°C | |
| " | " | " | 6 | 524, 504 | Grab | AQ | 3-VOA | 4°C | |
| " | " | " | 7 | 507, 515, 632, 508, 550, 506, 552 | Grab | AQ | 1L G | 4°C | |
| " | " | " | 1 | 547 Glyphosate **(Sub-Out)** | Grab | AQ | 1L G | 4°C | |
| " | " | " | 1 | 548 Endothall **(Sub-Out)** | Grab | AQ | 1L G | 4°C | |
| " | " | " | 1 | 549 Diquat **(Sub-Out)** | Grab | AQ | 1L G | 4°C | |
| " | " | " | 1 | Dioxin - 2,3,7,8 TCDD **(Sub-Out)** | Grab | AQ | 1L G | 4°C | |

RECEIVED
APR 23 2021
By

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/23/21 | 11:45 |
| Received by | | Cindy Martinez | 4/23/21 | 12:11 |
| Relinquished by | | Cindy Martinez | 4/23/21 | 13:35 |
| Received by | | | | |
| Relinquished by | | | | |
| Received final by | | | APR 23 2021 | 13:35 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

Initial Flow _____
Final Flow _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
(G) - Amber Glass
(VOA) - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
(HN) - $HNO_3$
HP - $H_3PO_4$
(OH) - NaOH
ST - Sodium Thiosulfate
(AA) - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Apr-21 15:27
Subject: (MCC) Daily EFF

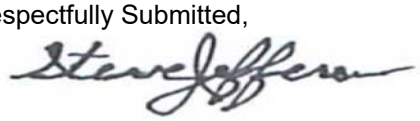
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0552-01) Collected: 24-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12404 | 1.8 | 24-Apr-21 | 26-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12404 | 1.8 | 24-Apr-21 | 26-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12418 | 0.1 | 24-Apr-21 | 24-Apr-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12417 | 0.05 | 24-Apr-21 | 24-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0552

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Jesus Avalos |
| | Irvine - CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/24/21 | 9:50 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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| ~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 4/24/21 | 9:55 |
| Received by: | Richard Martinez (PCL) | 4/24/21 | 12:10 |
| Relinquished by: | Richard Martinez | 4/24/21 | 13:30 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | PCL | 4/24/21 | 1330 |

**Sample Received Checklist**

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**Al** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Apr-21 15:29
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0556-01) Collected: 25-Apr-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12525 | 1.8 | 25-Apr-21 | 27-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12525 | 1.8 | 25-Apr-21 | 27-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AD12530 | 0.1 | 25-Apr-21 | 25-Apr-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12531 | 0.05 | 25-Apr-21 | 25-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 4/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0556

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Eric Morris |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/25/21 | 9 50 | 1 | pH, T.Res Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | 11 | 11 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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| Geotracker EDD:<br>Logcode: IPCI<br>Global ID: WDR100000359 | | | | | | | | | |

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Eric Morris/IPC | 4/25/21 | 9:59 |
| Received by | | Juan Vasquez (PCL) | 4/25/21 | 10:05 |
| Relinquished by | | Juan Vasquez (PCL) | 4/25/21 | 11:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | Jordan Corkery | 4/25/21 | 1130 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 04-May-21 15:56
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0568-01) Collected: 26-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12631 | 1.8 | 26-Apr-21 | 28-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12631 | 1.8 | 26-Apr-21 | 28-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10106 | 0.1 | 26-Apr-21 | 26-Apr-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12732 | 0.05 | 27-Apr-21 | 27-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/4/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0568

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : (MCC) Daily EFF | |
| Address: | 9297 Research Drive | Sampled by: Mario Aguirre | P.O. #: |
| | Irvine CA 92618 | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/26/21 | 11:18 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 26 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/26/21 | 11:21 |
| Received by | | Juan Vasquez (PCL) | 4/26/21 | 11:47 |
| Relinquished by | | Juan Vasquez (PCL) | 4/26/21 | 13:20 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 26 2021 | | 13:20 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 04-May-21 15:59
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0589-01) Collected: 27-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12730 | 1.8 | 27-Apr-21 | 01-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12730 | 1.8 | 27-Apr-21 | 01-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10106 | 0.1 | 27-Apr-21 | 27-Apr-21 | **8.0 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12732 | 0.05 | 27-Apr-21 | 27-Apr-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/4/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0589

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine - CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH/Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/27/21 | 12:05 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 8.0/20.4 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 27 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/27/21 | 8:32 |
| Received by | | | 4/27/21 | 12:32 |
| Relinquished by | | Cindy McPhail | 4/27/21 | 13:33 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | | APR 27 2021 | 13:33 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
(AA) - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 04-May-21 16:13
Subject: (MCC) Weekly INF

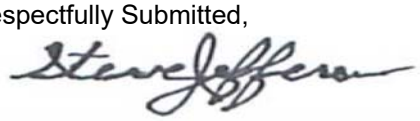
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21D0624-01) Collected: 27-Apr-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD13010 | 1 | 30-Apr-21 | 30-Apr-21 | **266 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD12935 | 2 | 29-Apr-21 | 04-May-21 | **570 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/4/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0624

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| P.O. #: | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 04/27/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| | | | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

RECEIVED
APR 28 2021
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 04/28/21 | 1450 |
| Received by | | Richard Martinez PCL | 4/28/21 | 1450 |
| Relinquished by | | Richard PCL | 4/28/21 | 1630 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 28 2021 | 16:30 | |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab<br>Comp | HC - HCl<br>HS - $H_2SO_4$<br>HN - $HNO_3$<br>HP - $H_3PO_4$<br>OH - NaOH<br>ST - Sodium Thiosulfate<br>AA - Ascorbic Acid<br>AI - $AlCl_3$<br>Cu - $CuSO_4$ |
| **Matrix**<br>AQ - Water<br>SO - Soil / Sludge<br>OT - Other | |
| **Bottle Type**<br>P - Plastic<br>G - Amber Glass<br>VOA - 40 ml Vial<br>Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 04-May-21 16:01
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0622-01) Collected: 28-Apr-21 By Carlos A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12824 | 1.8 | 28-Apr-21 | 30-Apr-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12824 | 1.8 | 28-Apr-21 | 30-Apr-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10106 | 0.1 | 28-Apr-21 | 28-Apr-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD12938 | 0.05 | 29-Apr-21 | 29-Apr-21 | **0.11 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/4/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0622

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine - CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 04/28/21 | 1210 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | 1 | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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APR 28 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 04/28/21 | 14:30 |
| Received by | | Richard Martinez PCL | 4/28/21 | 14:30 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | APR 28 2021 | | 16:30 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| (Grab) | (AQ) - Water | (P) - Plastic |
| Comp | SO -Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | (Coli) - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 04-May-21 16:09
Subject: (MCC) Weekly EFF

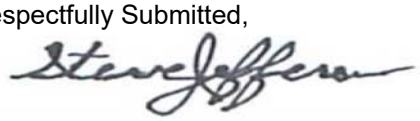
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0625-01) Collected: 28-Apr-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AD12945 | 1 | 29-Apr-21 | 30-Apr-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AD12937 | 0.10 | 29-Apr-21 | 29-Apr-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AD12939 | 0.05 | 29-Apr-21 | 29-Apr-21 | **1.80 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AD12939 | 0.05 | 29-Apr-21 | 29-Apr-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AD12928 | 0.10 | 29-Apr-21 | 30-Apr-21 | **1.25 mg/l** | |
| **EFF (Sample I.D.# : 21D0625-02) Collected: 27-Apr-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AD12935 | 2 | 29-Apr-21 | 04-May-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/4/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21DC625

| | | | |
|---|---|---|---|
| Customer: [illegible] Integrated Platform Water Consultants, Inc | | Project: [illegible] EFF - Weekly | |
| Address: [illegible] Reserch Drive | | Sampled by: C. [illegible] | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Goran Kilic | Phone #: 949-382-6067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 04/28/21 | 1210 | 1 | TSS | Grab | AQ | 1-Liter Plastic | 4°C | |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 04/27/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

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APR 28 2021
By [signature]

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | [signature] | Carlos Alvarez (IPC) | 04/28/21 | 14:30 |
| Received by | [signature] | Richard Martinez PCL | 4/28/21 | 1430 |
| Relinquished by | [signature] | Richard Mtz | 4/28/21 | 1630 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | [signature] | APR 28 2021 | | 16:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

Initial Flow _____

Final Flow _____

| Sample Type | Preservations |
|---|---|
| (Grab) Comp | HC - HCl |
| Matrix | HS - $H_2SO_4$ |
| (AQ) - Water | HN - $HNO_3$ |
| SO -Soil / Sludge | HP - $H_3PO_4$ |
| OT - Other | OH - NaOH |
| Bottle Type | ST - Sodium Thiosulfate |
| (P) Plastic | AA - Ascorbic Acid |
| G - Amber Glass | AI - $AlCl_3$ |
| VOA - 40 ml Vial | Cu -$CuSO_4$ |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 04-May-21 16:04
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0643-01) Collected: 29-Apr-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD12947 | 1.8 | 29-Apr-21 | 01-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD12947 | 1.8 | 29-Apr-21 | 01-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10106 | 0.1 | 29-Apr-21 | 29-Apr-21 | **7.0 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AD13007 | 0.05 | 30-Apr-21 | 30-Apr-21 | **0.08 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/4/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0643

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Golan Kfir<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/29/21 | 12:25 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 6.95 / 20.5°C |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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APR 29 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Golan IPC | 4/29/21 | 12:30 |
| Received by | Armando Ochoa (PCL) | 4/29/21 | 12:30 |
| Relinquished by | Armando Ochoa (PCL) | 4/29/21 | 13:40 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | APR 29 2021 | | 13:40 |

**Sample Received Checklist** 4°C

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type | Preservations |
|---|---|---|---|
| Grab | AQ - Water | P - Plastic | HC - HCl |
| Comp | SO - Soil / Sludge | G - Amber Glass | HS - $H_2SO_4$ |
| | OT - Other | VOA - 40 ml Vial | HN - $HNO_3$ |
| | | Coli - bacteria | HP - $H_3PO_4$ |
| | | | OH - NaOH |
| | | | ST - Sodium Thiosulfate |
| | | | AA - Ascorbic Acid |
| | | | AI - $AlCl_3$ |
| | | | Cu - $CuSO_4$ |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 04-May-21 16:07
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21D0653-01) Collected: 30-Apr-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AD13009 | 1.8 | 30-Apr-21 | 02-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AD13009 | 1.8 | 30-Apr-21 | 02-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10106 | 0.1 | 30-Apr-21 | 30-Apr-21 | **6.9 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10105 | 0.05 | 01-May-21 | 01-May-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/4/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21D0653

| | | | |
|---|---|---|---|
| Customer: | iPC - Integrated Performance Consultants, Inc. | Project: (MCC) Daily EFF | |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Mario Aguirre<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 4/30/21 | 11:15 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 6.9/24.6 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
APR 30 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 4/30/21 | 11:19 |
| Received by | | Cindy Martinez | 4/30/21 | 12:25 |
| Relinquished by | | Cindy Martinez | 4-30-21 | 13:35 |
| Received by | | | | |
| Relinquished by | | | | |
| Received for Lab by | | APR 30 2021 | | 13:35 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

Initial Flow _____

Final Flow _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 12:48
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0004-01) Collected: 01-May-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10104 | 1.8 | 01-May-21 | 03-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10104 | 1.8 | 01-May-21 | 03-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10227 | 0.1 | 01-May-21 | 01-May-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10226 | 0.05 | 02-May-21 | 02-May-21 | **0.07 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0004

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) EFF - Daily |
| Address: | 9297 Research Drive | Sampled by: | Jesus Avalos |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/1/21 | 10:25 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| 〃 | 〃 | 〃 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Geotracker EDD: Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 5/1/21 | 10:30 |
| Received by: | Richard Martinez (PCL) | 5/1/21 | 11:50 |
| Relinquished by: | Richard Mtz | 5/1/21 | 1430 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | Rm PCL | 5/1/21 | 1430 |

**Sample Received Checklist**

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab<br>Comp | HC - HCl<br>HS - $H_2SO_4$<br>HN - $HNO_3$<br>HP - $H_3PO_4$<br>OH - NaOH<br>ST - Sodium Thiosulfate<br>AA - Ascorbic Acid<br>AI - $AlCl_3$<br>Cu - $CuSO_4$ |
| **Matrix**<br>AQ - Water<br>SO - Soil / Sludge<br>OT - Other | |
| **Bottle Type**<br>P - Plastic<br>G - Amber Glass<br>VOA - 40 ml Vial<br>Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

# Pat-Chem Laboratories (PCL) Terms and Conditions

## 1. Definitions

"Terms and Conditions" means these Terms and Conditions of Sale, including the price schedule, and any additional or supplemental terms which are agreed to in writing. "Client" means the individual or entity who has placed laboratory services, consultation or sampling orders and to whom bids, quotations, samples and representatives of Pat-Chem Laboratories (PCL) standard price schedule or such document may be amended or revised from time to time by PCL.

## 2. Independent Contractor

PCL acts solely as an independent contractor in performing all services.

## 3. Orders and Acceptance

PCL offers and will accept orders for services as defined herein only under the following General Terms and Conditions (the "Terms"). These Terms shall not apply if PCL and the Client shall have executed a separate agreement in writing which does not incorporate the Terms. No modification to the Terms shall be valid and binding unless in writing and signed by an officer and representative of the Client and PCL.

The Client may order services by submitting a written client proposal to PCL. Any such order shall not be PCL's acceptance by the client of PCL's offer. In accordance with the client order terms and conditions 2 and 7, an agreement to be bound to these terms and conditions.

The Client's delivery of samples to PCL or initiation of consulting services constitutes the client's express assent to be governed by these terms and conditions. Any counter or additional terms and conditions expressed in a client's instrument shall be deemed to become a part of the contract created upon acceptance of the terms and conditions.

For purpose of this agreement, "services" shall mean all work to be performed for the client, including provision of all equipment and materials to be furnished by PCL.

## 4. Limit of Liability

PCL will perform the services in accordance with the normal standards of care/practice in the profession. Where applicable, PCL will use analytical methodologies which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), Cal Water Board (ESAP), American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods (SM) of the Examination of Water and Wastewater and/or other recognized methodologies. PCL reserves the right to deviate from these methodologies if necessary or appropriate due to the nature or compositions of the samples or otherwise based on the reasonable judgement of PCL. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or PCL Standard Operating Procedures (SOP) and/or our QA/QC policies. The total liability of PCL, its officers, agents, employees or successors to the client arising out of or in connection with the services to be provided herein, shall not exceed the invoiced amount for said services. Client's acceptance of a work order and /or proposal releases PCL from any liability in excess of the invoiced amount for the services notwithstanding any provisions to the contrary in any client purchase orders or contracts.

## 5. Clients Responsibility

Unless PCL personnel performs the sampling, the client shall be responsible for the condition which the samples are collected and for conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

## 6. Cancellation

Client may cancel any order for services hereunder subject to payment for all services rendered and out-of-pocket expenses incurred up to the date of cancellation in accordance with the applicable Price Schedule.

## 7. Overriding Agreement

The parties agree that the Terms shall govern performance of Client's initial order and all subsequent orders for additional services, whether placed in writing or verbally, except to the extent the Terms are modified in writing and executed by an authorized representative of both parties.

## 8. Force Majeure

PCL shall not be responsible for delay or failure to perform the services pursuant to this agreement due to causes beyond its control.

## 9. Confidentiality

Data and/or sample materials provided by client or at client's request and the results discovered by PCL shall be held in confidence unless such information is generally available to the public or client otherwise consents in writing to PCL for all purposes rendering it unavailable in breach of the agreement subject to any disclosure required by law or instrument. PCL shall use the same standard of care in safeguarding confidential information and data and shall not be responsible for unauthorized disclosure of client information unless such disclosure is caused by PCL's willful misconduct. PCL shall use the test results, PCL reports and information provided thereto only for the exclusive use and benefit of client and client agrees that it shall not to third party beneficiary of such reports, data or information. Client will not distribute any such information, advertising, marketing or publication materials to any third party without PCL's prior written consent.

## 10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses, damages, claims, demands, causes of action, suits and associated expenses, including, but not limited to, attorneys' fees, litigation expenses and awards arising in favor of clients or any third party as a result of, and/or in any way occurring in, related to arising out of, or in connection with, the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client's hazardous materials, injury, illness or death of persons, property damage, loss of, or loss of use of property, and/or any other type of injury and/or damage. This indemnity does not apply to any of the foregoing to the extent damages or injuries cannot solely be the direct negligence and/or willful misconduct of PCL or its employees. Further, this indemnity is to specifically apply to claims, claims pursuant to strict liability and also to the negligence of PCL in connection with the foregoing and on account of claims against Indemnified Persons, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnification will be in addition to any liability which PCL may otherwise have to client. To the extent necessary under applicable law, client agrees that its liabilities, if any, will be supported by available liability insurance coverage to be maintained by client, which insurance shall be in the minimum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption, litigation Expenses or other fees including, without limitation, attorney's fees, court costs, and/or pre or post judgment interest), or any other expenses or costs incurred by client, or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or services provided under this agreement even if client is the prevailing party.

## 11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples materials for analyses such as asbestos, polychlorinated biphenyls (PCBs) or any other hazardous or toxic material, wastes and substances which are defined, determined or identified as such under federal, state or local laws, rules, PCL policies or regulations (whether now existing or hereafter enacted or promulgated) or any judicial or administrative interpretation of any thereof (the "Hazardous Materials"). Client understands and agrees that any hazardous material received by PCL from client or at client's request shall remain the property of Client and that upon completion of PCL's services, PCL will dispose of all unused portion of samples as specified by client or by PCL's QA/QC policies. In the event the client does not specify its preferred method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any/all bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

## 12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect at the time of each submission of the services were rendered or such price quoted and agreed to in writing. The price schedule is subject to change at any time without notice. Payment is due on or before thirty (30) days from date of invoice. Client shall pay a late charge of 1.5% per month on the unpaid balance. If unpaid amounts are referred to a collection agency or to an attorney, the client shall be responsible for all agency fees or attorney's fees and expenses incurred in connection therewith. Client shall pay all costs of collection, including reasonable attorneys' fees, court costs and other expenses incurred by PCL in connection with the collection of such amounts. Client shall pay all taxes (except taxes based on PCL's net income), duties and assessments now or hereafter imposed by any governmental authority in connection with the services provided by PCL.

## 13. Agreement Modification

Changes or addendum or amendments to the Terms shall be effective only if in writing and executed by an officer of PCL and by client, or authorized representative. Except that subsequent orders for additional services may be verbal or in writing.

## 14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL to client in rendering services hereunder for its own purposes, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, or shall be used or relied upon, in connection with or as part of, the purchase, sale, underwriting, or distribution of any securities, any refinancing of or lending to the holders of any securities, the securing, attachment, renewal, or extension of any loan from any financial institution or other lender or the certification of or consulting with, directly or indirectly, any governmental agency or department.

## 15. Rush Analysis

Rush analyses are available for an additional charge and must be arranged in advance. In January unforeseen reason, the rush turnaround time cannot be met, the normal price will apply.

## 16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are delivered on weekends or after 3pm on weekdays without prior notification and acceptance. Standard holding times and storage conditions should be reviewed prior to any samples being received by PCL. A list of holding times can be provided on the client's request. All analyses with holding times of 14 days or less, samples must arrive within 96 hours to allow PCL to meet holding times without applying a rush surcharge. All short holding times, 2-7 days, samples must arrive at the lab within 24 hours before expiration to ensure that the holding times can be met. Short Holding Times of 72 hours or less (particularly 48 hours) must be delivered that same day to allow to guarantee holding times are met. After hours sale delivery, freight company delays or similar issues are subject to additional rush fees and/or the inability to meet holding times. All holding times are in effect as of the publication date of this fee schedule and is subject to change without notice.

## 17. Sample Retention

All samples are retained for at least thirty (30) Days after analysis has been completed. Sample storage for longer periods is by request only. Pre-arranged long term storage is subject to an additional charge. Samples will be disposed of at the end of the pre-arranged storage time.

## 18. Sample Pick Up/Field Tech Sampling

All pick up/sampling fees have been notated on the fee schedule. Reasonable time has been allocated for each pick up or service. Unnecessary delays during the pick up or sampling, might be assessed an additional fee.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 12:52
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0008-01) Collected: 02-May-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10225 | 1.8 | 02-May-21 | 04-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10225 | 1.8 | 02-May-21 | 04-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10229 | 0.1 | 02-May-21 | 02-May-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10228 | 0.05 | 02-May-21 | 02-May-21 | **0.15 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0003

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: Eric Morris | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/2/21 | 9:45 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | 〃 | 〃 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Eric Morris IPC | 5/02/21 | 9:55 |
| Received by | | Juan Vasquez (PCL) | 5/2/21 | 10:35 |
| Relinquished by | | Juan Vasquez (PCL) | 5/2/21 | 12:05 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | Jordan Corkery | 5/2/21 | 1205 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** - $CuSO_4$

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 12:54
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0027-01) Collected: 03-May-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10325 | 1.8 | 03-May-21 | 05-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10325 | 1.8 | 03-May-21 | 05-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10805 | 0.1 | 03-May-21 | 03-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10808 | 0.05 | 04-May-21 | 04-May-21 | **0.07 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0027

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project:** (MCC) Daily EFF | |
| **Address:** 9297 Research Drive | **Sampled by:** Mario Aguirre | **P.O. #:** | |
| Irvine CA 92618 | **Report Attention:** Ric Vardel / Golan Kfir | **Phone #:** 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/3/21 | 11:00 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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RECEIVED
MAY 03 2021
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 5/3/21 | 11:15 |
| Received by | Juan Vasquez (PCL) | 5/3/21 | 12:15 |
| Relinquished by | Juan Vasquez (PCL) | 5/3/21 | 15:44 |
| Received by | | | |
| Relinquished by | | | |
| Received at lab by | | MAY 03 2021 | 15:44 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab) Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P)- Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 13:47
Subject: (MCC) Monthly EFF

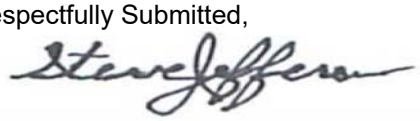
Project/P.O.#: (MCC) Monthly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0030-01) Collected: 03-May-21 By M.A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Dissolved Solids** | SM 2540C | AE10634 | 5 | 06-May-21 | 07-May-21 | **672 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Chloride** | EPA 300.0 | AE10533 | 20.0 | 05-May-21 | 05-May-21 | **178 mg/l** | |
| **Sulfate as SO4** | EPA 300.0 | AE10533 | 10.0 | 05-May-21 | 05-May-21 | **107 mg/l** | |
| **Boron** | EPA 200.7 | AE10419 | 0.10 | 04-May-21 | 11-May-21 | **0.29 mg/l** | |
| **Phosphorus, Total as P** | EPA 365.3 | AE10811 | 0.05 | 08-May-21 | 08-May-21 | **0.82 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **MBAS** | SM 5540 C | AE10421 | 0.20 | 04-May-21 | 04-May-21 | **0.21 mg/l** | |
| **Oil & Grease (HEM)** | EPA 1664A | AE10426 | 5 | 04-May-21 | 04-May-21 | **<5 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0030

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project :** (MCC) EFF - Monthly | |
| **Address:** 9297 Research Drive<br>Irvine CA 92618 | **Sampled by:** Mario Aguirre | **P.O. #:** | |
| | **Report Attention:** Ric Vardel / Golan Kfir | **Phone #:** 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/3/21 | 11:10 | 1 | Sulfate, Chloride, TDS | Grab | AQ | 1/2 Gal. P | 4°C | |
| " | " | " | 1 | MBAS | Grab | AQ | 500 P | 4°C | |
| " | " | " | 1 | Oil & Grease | Grab | AQ | 1L G | HC | |
| " | " | " | 1 | Boron | Grab | AQ | 250 P | HN | |
| " | " | " | 1 | T.Phos | Grab | AQ | 500 P | 4°C | |
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| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

RECEIVED
MAY 03 2021
By Abdulkadir Jr.

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 5/3/21 | 11:15 |
| Received by | Juan Vasquez (PCL) | 5/3/21 | 11:15 |
| Relinquished by | Juan Vasquez (PCL) | 5/3/21 | 15:44 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | | MAY 03 2021 | 15:44 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P)- Plastic
(G)- Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
(HC)- HCl
HS - $H_2SO_4$
(HN) - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 12:57
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0070-01) Collected: 04-May-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10422 | 1.8 | 04-May-21 | 06-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10422 | 1.8 | 04-May-21 | 06-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10805 | 0.1 | 04-May-21 | 04-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10808 | 0.05 | 05-May-21 | 05-May-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0070

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) EFF - Daily |
| Address: | 9297 Research Drive | Sampled by: | Golan Kfir |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/4/21 | 10:30 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 04 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: GK | Golan IPC | 5/4/21 | 12:02 |
| Received by: | Juan Vasquez (PCL) | 5/4/21 | 12:02 |
| Relinquished by: | Juan Vasquez (PCL) | 5/4/21 | 15:30 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | MAY 04 2021 1530 | | |

**Sample Received Checklist**

| | | |
|---|---|---|
| Temperature upon receipt: | 4 | |
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | (Yes) | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| (Grab) Comp | HC - HCl |
| **Matrix** | HS - $H_2SO_4$ |
| (AQ) - Water | HN - $HNO_3$ |
| SO -Soil / Sludge | HP - $H_3PO_4$ |
| OT - Other | OH - NaOH |
| **Bottle Type** | (ST) Sodium Thiosulfate |
| (P) - Plastic | AA - Ascorbic Acid |
| G - Amber Glass | Al - $AlCl_3$ |
| VOA - 40 ml Vial | Cu - $CuSO_4$ |
| (Coli) - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 14:29
Subject: (MCC) Weekly INF

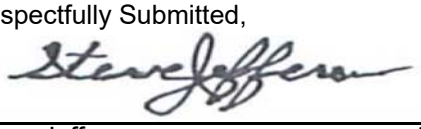
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21E0123-01) Collected: 04-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE10930 | 1 | 09-May-21 | 09-May-21 | **453 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE10539 | 2 | 05-May-21 | 10-May-21 | **170 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0123

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine - CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 05/04/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| " | " | " | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

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MAY 05 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 05/05/21 | 12:45 |
| Received by | | Juan Vasquez (PCL) | 5/5/21 | 12:45 |
| Relinquished by | | Juan Vasquez (PCL) | 5/5/21 | 14:25 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in Lab by | | MAY 05 2021 | | 14:25 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 12:59
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0121-01) Collected: 05-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10538 | 1.8 | 05-May-21 | 07-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10538 | 1.8 | 05-May-21 | 07-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10805 | 0.1 | 05-May-21 | 05-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10808 | 0.05 | 06-May-21 | 06-May-21 | **0.06 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0121

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Ric Vardel / Golan Kfir |
| | Irvine CA 92618 | Report Attention: | |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/05/21 | 1155 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | ( | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 05 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (PCL) | 05/05/21 | 12:45 |
| Received by | | Juan Vasquez (PCL) | 5/5/21 | 12:45 |
| Relinquished by | | Juan Vasquez (PCL) | 5/5/21 | 14:25 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 05 2021 | | 14:25 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

Sample Type: (Grab) Comp

Matrix: (AQ) - Water; SO -Soil / Sludge; OT - Other

Bottle Type: (P) - Plastic; G - Amber Glass; VOA - 40 ml Vial; Coli - bacteria

Preservations: HC - HCl; HS - $H_2SO_4$; HN - $HNO_3$; HP - $H_3PO_4$; OH - NaOH; (ST) - Sodium Thiosulfate; AA - Ascorbic Acid; AI - $AlCl_3$; Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 14:23
Subject: (MCC) Weekly EFF

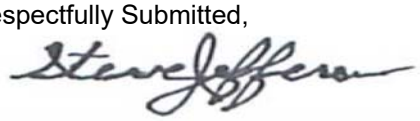
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0124-01) Collected: 05-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE10638 | 1 | 06-May-21 | 07-May-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AE10708 | 0.10 | 07-May-21 | 07-May-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AE10637 | 0.05 | 06-May-21 | 06-May-21 | **0.32 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AE10637 | 0.05 | 06-May-21 | 06-May-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AE10703 | 0.10 | 07-May-21 | 07-May-21 | **1.15 mg/l** | |
| **EFF (Sample I.D.# : 21E0124-02) Collected: 04-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE10539 | 2 | 05-May-21 | 10-May-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0124

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project:** (MCC) EFF - Weekly | |
| **Address:** 9297 Research Drive | | **Sampled by:** | **P.O. #:** |
| Irvine CA 92618 | | **Report Attention:** Ric Vardel / Golan Khir | **Phone #:** 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/05/21 | 1155 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 05/04/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

RECEIVED
MAY 05 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 05/05/21 | 12:45 |
| Received by | | Juan Vasquez (PCL) | 5/5/21 | 12:45 |
| Relinquished by | | Juan Vasquez (PCL) | 5/5/21 | 14:25 |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | MAY 05 2021 | | 14:25 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | (Yes) | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
(Comp)

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

# Pat-Chem Laboratories (PCL) Terms and Conditions

## 1. Definitions

"Terms and Conditions" means these Terms and Conditions of Sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who may request laboratory services, consulting or sampling services and its or its heirs, successors, assigns and representatives. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule as such document may be amended or revised from time to time by PCL.

## 2. Independent Contractor

PCL acts solely as an independent contractor in performing all services.

## 3. Orders and Acceptance

PCL offers and will accept orders for services (as defined herein) only under the following General Terms and Conditions (the "Terms"). These Terms shall not apply if PCL and the Client shall have executed a separate agreement in writing which does not incorporate the Terms. No modifications to the Terms shall be valid and binding unless in writing and signed by an authorized representative of the client and PCL.

The client may order services by submitting a written chain of custody (COC) to PCL. Any such order constitutes 1. an acceptance by the client of PCL's offer to do business with the client under the terms and condition and 2. an agreement to be bound by these terms and conditions. The Client's delivery of samples to PCL or initiation of consulting services constitutes the client's express assent to be governed by these terms and conditions. No contrary or additional terms and conditions expressed in a client's document shall be deemed to become a part of the contract created upon acceptance of the terms and conditions.

For purpose of this agreement, "services" shall mean all work to be performed for the client, including provision of all equipment and materials to be furnished by PCL.

## 4. Limit of Liability

PCL will perform the services in accordance with the normal standards of workmanship in the profession. Where applicable, PCL will use analytical methodologies which are in substantial conformity with the U.S Environmental Protection Agency (EPA), CA Waterboard (ELAP), American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods (SM) of the Examination of Water and Wastewater and/or other recognized methodologies. PCL reserves the right to deviate from these methodologies if necessary or appropriate due to the nature or compositions of the samples or otherwise based on the reasonable judgement of PCL. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or PCL Standard Operating Procedures (SOP) and/or our QA/QC policies. The total liability of PCL, its officers, agents, employees or successors to the client arising out of or in connection with the services to be provided herein, shall not exceed the stipulated amount for said services. Client's acceptance of a work order and /or proposal releases PCL from any liability in excess of the invoiced amount for the services notwithstanding any provisions to the contrary in any client purchase orders or contracts.

## 5. Clients Responsibility

Unless PCL personnel performs the sampling, the client shall be responsible for the condition which the samples are collected and for conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

## 6. Cancellation

Client may cancel any order for services hereunder subject to payment for all services rendered and out-of-pocket expenses incurred up to the date of cancellation in accordance with the applicable Price Schedule.

## 7. Overriding Agreement

The parties agree that the Terms shall govern performance of Client's initial order and all subsequent orders for additional services, whether placed in writing or verbally, except to the extent the Terms are modified in writing and executed by an authorized representative of both parties.

## 8. Force Majeure

PCL shall not be responsible for delay or failure to perform the services pursuant to this agreement due to causes beyond its control.

## 9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence unless such information is generally available to the public or is the public domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data, unless such disclosure was inherent in PCL reports and information provided thereunder and for the exclusive use and benefit of client and client agrees there shall be no third parties beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software, price, and all other formulations.

## 10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses, damages, claims, demands, causes of action, costs and associated expenses, including, but not limited to, all court fees, litigation expenses and awards arising in favor of Client, or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client's hazardous materials. 1. injury, sickness or death of persons 2. loss of, damage to, loss of, or loss of use of property, and/or 3. the above risk of injury and its character. This indemnity does not apply to any of the foregoing losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to certain claims, damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any indemnified Person, whether Actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified Persons. To the extent necessary under applicable law, client agrees that its indemnity obligation will be supported by available liability insurance coverage as be furnished by client, which insurance shall be to the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption) litigation expenses or other fees including, without limitation, attorney's fees, court costs, and /or pre or post judgment interest), or any other expenses or costs incurred by client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or all services provided under this agreement even if client is the prevailing party.

## 11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples material(s) for analytes such as asbestos, polychlorinated biphenyls, bacteria or any other hazardous or toxic material, wastes and substances which are defined, determined or identified as such under federal, state or local laws, rules, PCL policies or regulations (whether now existing or hereafter enacted or promulgated or any judicial or administrative interpretations of any thereof (the "Hazardous Materials"). Client understands and agrees that any hazardous material received by PCL from client or at client's request shall remain the property of Client and that upon completion of PCL's services, PCL will dispose of all unused portions of samples as specified by client or by PCL's QA/QC policies. In the event the client does not specify its preferred method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any lab bacterial analysis. Client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

## 12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect in the area of operations on the date the services were tendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when services is completed is required for all new clients or until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted (if at all) by applicable law, any amount unpaid as the end of thirty (30) days is subject to interest at the lesser of the maximum rate permitted by law or one and one-half percent (1.5%) per month on the unpaid balances. If unpaid accounts are collected through legal proceedings or by an attorney, the client shall pay reasonable costs and attorney's fees or agents' fees associated with such collection procedure or efforts.

## 13. Agreement Modification

Changes, modifications or amendments to the terms shall be effective only in writing and executed by an officer of PCL and by clients authorized representative, except that subsequent orders for additional services may be verbal or in writing.

## 14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement, and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, or shall be used to relied upon, in connection with or as part of, the purchase, sale, underwriting, or distribution of any securities, any periodic or other reporting to the holders of any security, the securing, amendment, renewal, or extension of any loan from any financial institution or other lender or the certification to or contracting with, directly or indirectly, any governmental agency or department.

## 15. Rush Analysis

Rush analyses are available for an additional charge and must be arranged in advanced. If, for any unforeseen reason, the rush turnaround time cannot be met, the normal price will apply.

## 16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are delivered on weekends or after 2pm on weekdays without prior modification and acceptance. Standard holding times and storage conditions should be reviewed prior to any samples being received by PCL. A list of holding times can be provided to the client if requested. All analyses with holding times of 14 days or less, samples must arrive within 96 hours to allow PCL to meet holding times without applying a rush surcharge. All short holding times 7 7 days, samples must arrive at the lab within 24 hours before expiration to insure that the holding times can be met. Short Holding Times of 48 hours or less (bacteria is 6 hours) must be delivered that same day in order to guarantee holding times are met. After hours, late delivery, freight company delays or similar issues are subject to additional rush fees and/or the inability to meet holding times. All holding times are in effect as of the publication date of this fee schedule and are subject to change without notice.

## 17. Sample Retention

All samples are retained for at least thirty (30) days after analysis has been completed. Sample storage for longer periods is by request only. Pre-arranged long term storage is subject to an additional charge. Samples will be discarded at the end of the pre-arranged storage time.

## 18. Sample Pick Up/Field Tech Sampling

All pick up/sampling fees have been notated on the fee schedule. Reasonable time has been allocated for each pick up or service. Unnecessary delays during the pick up or sampling, might be accessed an additional fee.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:02
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0154-01) Collected: 06-May-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10640 | 1.8 | 06-May-21 | 08-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10640 | 1.8 | 06-May-21 | 08-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10805 | 0.1 | 06-May-21 | 06-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10808 | 0.05 | 07-May-21 | 07-May-21 | **0.06 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0154

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Golan Kfir<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/6/21 | 11:00 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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MAY 06 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: GK | Golan IPC | 5/6/21 | 12:00 |
| Received by: | Juan Vasquez (PCL) | 5/6/21 | 12:00 |
| Relinquished by: | Juan Vasquez (PCL) | 5/6/21 | 13:00 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | | MAY 06 2021 | 13:00 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| (Grab) Comp | HC - HCl |
| **Matrix** | HS - $H_2SO_4$ |
| (AQ) - Water | HN - $HNO_3$ |
| SO -Soil / Sludge | HP - $H_3PO_4$ |
| OT - Other | OH - NaOH |
| **Bottle Type** | (ST) - Sodium Thiosulfate |
| (P)- Plastic | AA - Ascorbic Acid |
| G - Amber Glass | Al - $AlCl_3$ |
| VOA - 40 ml Vial | Cu -$CuSO_4$ |
| (Coli) - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:04
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0191-01) Collected: 07-May-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10707 | 1.8 | 07-May-21 | 09-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10707 | 1.8 | 07-May-21 | 09-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10805 | 0.1 | 07-May-21 | 07-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10807 | 0.05 | 08-May-21 | 08-May-21 | **0.12 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0191

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Ric Vardel / Golan Kfir |
| | | Report Attention: | |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/07/21 | 1105 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Nuno (IPC) | 05/07/21 | 1115 |
| Received by | | Richard Martinez (IPC) | 5/7/21 | 1410 |
| Relinquished by | | Richard Mtz | 5/7/21 | 1700 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 07 2021 | | 17:00 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:06
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0206-01) Collected: 08-May-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10804 | 1.8 | 08-May-21 | 10-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10804 | 1.8 | 08-May-21 | 10-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE10817 | 0.1 | 08-May-21 | 08-May-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE10816 | 0.05 | 08-May-21 | 08-May-21 | **0.10 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0206

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: Jesus Avalos / Ric Vardel / Golan Kfir | P.O. #: |
| Irvine CA 92618 | | Report Attention: | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/8/21 | 10:50 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 5/8/21 | 10:55 |
| Received by: | Richard Martinez (PCL) | 5/8/21 | 1150 |
| Relinquished by: | | | |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | Richard Martinez | 5/8/21 | 1320 |

**Sample Received Checklist**

Temperature upon receipt: _____
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:10
Subject: (MCC) Daily EFF

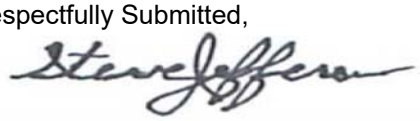
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0213-01) Collected: 09-May-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE10928 | 1.8 | 09-May-21 | 11-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE10928 | 1.8 | 09-May-21 | 11-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11507 | 0.1 | 09-May-21 | 09-May-21 | **7.9 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11128 | 0.05 | 10-May-21 | 10-May-21 | **0.16 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0213

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Eric Morris |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/9/21 | 1022 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Relinquished by / Received by / Relinquished by / Received by / Relinquished by / Received in lab by | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Eric Morris IPC | 5/9/21 | 10:30 |
| Received by | | Juan Vasquez (PCL) | 5/9/21 | 11:50 |
| Relinquished by | | Juan Vasquez (PCL) | 5/9/21 | 13:27 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | Jordan Corkery | 5/9/21 | 1327 |

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| **Grab** | **HC** - HCl |
| **Comp** | **HS** - $H_2SO_4$ |
| **Matrix** | **HN** - $HNO_3$ |
| **AQ** - Water | **HP** - $H_3PO_4$ |
| **SO** -Soil / Sludge | **OH** - NaOH |
| **OT** - Other | **ST** - Sodium Thiosulfate |
| **Bottle Type** | **AA** - Ascorbic Acid |
| **P** - Plastic | **AI** - $AlCl_3$ |
| **G** - Amber Glass | **Cu** -$CuSO_4$ |
| **VOA** - 40 ml Vial | |
| **Coli** - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:14
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0226-01) Collected: 10-May-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11023 | 1.8 | 10-May-21 | 12-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11023 | 1.8 | 10-May-21 | 12-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11507 | 0.1 | 10-May-21 | 10-May-21 | **7.7 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11128 | 0.05 | 11-May-21 | 11-May-21 | **0.09 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0226

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Ric Vardel / Golan Kfir |
| | | Report Attention: | |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/10/21 | 1140 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.7 / 16.9 °C |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| 1 | 1 | 1 | | | | | | | |

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (C&C) | 05/10/21 | 1150 |
| Received by | | Cindy Murray | 5-10-21 | 12:30 |
| Relinquished by | | Cindy Murray | 5-10-21 | 13:25 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 10 2021 | | 13:25 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab<br>Comp | HC - HCl<br>HS - $H_2SO_4$<br>HN - $HNO_3$<br>HP - $H_3PO_4$<br>OH - NaOH<br>ST - Sodium Thiosulfate<br>AA - Ascorbic Acid<br>Al - $AlCl_3$<br>Cu - $CuSO_4$ |
| **Matrix**<br>AQ - Water<br>SO - Soil / Sludge<br>OT - Other | |
| **Bottle Type**<br>P - Plastic<br>G - Amber Glass<br>VOA - 40 ml Vial<br>Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 13:16
Subject: (MCC) Daily EFF

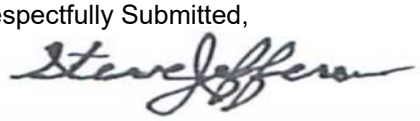
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0257-01) Collected: 11-May-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11124 | 1.8 | 11-May-21 | 13-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11124 | 1.8 | 11-May-21 | 13-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11507 | 0.1 | 11-May-21 | 11-May-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11333 | 0.05 | 12-May-21 | 12-May-21 | **0.07 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0257

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Mario Aguirre<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/11/21 | 11:17 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.6/18.4 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 11 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 5/11/21 | 11:20 |
| Received by | | [illegible] | 5/11/21 | 13:10 |
| Relinquished by | | [illegible] | 5/11/21 | 15:10 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 11 2021 | | 15:10 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO -Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | AI - $AlCl_3$ |
| G - Amber Glass | Cu -$CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 14:32
Subject: (MCC) Weekly INF

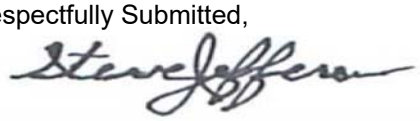
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21E0289-01) Collected: 11-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE11330 | 1 | 13-May-21 | 13-May-21 | **262 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE11233 | 2 | 12-May-21 | 17-May-21 | **530 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0289

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc | Project : | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | C. D. |
| | Irvine - CA 92618 | Report Attention: | Ric Vardei / Goian Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 05/11/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | 7.7 20.7°C |
| " | " | " | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

RECEIVED
MAY 12 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 05/12/21 | 12:15 |
| Received by | | Cindy Mayhew | 5-12-21 | 12:15 |
| Relinquished by | | Cindy Mayhew | 5/12/21 | 13:50 |
| Received by | | | | |
| Relinquished by | | | | |
| Received at Lab by | | MAY 12 2021 | | 13:50 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:19
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0281-01) Collected: 12-May-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11234 | 1.8 | 12-May-21 | 14-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11234 | 1.8 | 12-May-21 | 14-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11507 | 0.1 | 12-May-21 | 12-May-21 | **8.0 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11333 | 0.05 | 13-May-21 | 13-May-21 | **0.11 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0281

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Rid Vardel / Golan Kfir | P.O. #: | |
| | Report Attention: | Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/12/21 | 1150 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 8.0/22.2 |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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MAY 12 2021

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (GPC) | 05/12/21 | 12:30 |
| Received by | | Cindy Mapmer | 5-12-21 | 12:30 |
| Relinquished by | | Cindy Mapmer | 5-12-21 | 13:50 |
| Received by | | | | |
| Relinquished by | | | | |
| Received for lab by | | MAY 12 2021 | | 13:50 |

**Sample Received Checklist**

| | |
|---|---|
| Temperature upon receipt: | 4°C |
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 14:26
Subject: (MCC) Weekly EFF

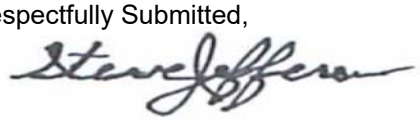
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0287-01) Collected: 12-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE11330 | 1 | 13-May-21 | 13-May-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AE11408 | 0.10 | 14-May-21 | 14-May-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AE11334 | 0.25 | 13-May-21 | 14-May-21 | **1.58 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AE11334 | 0.05 | 13-May-21 | 14-May-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AE11327 | 0.10 | 13-May-21 | 14-May-21 | **0.69 mg/l** | |
| **EFF (Sample I.D.# : 21E0287-02) Collected: 11-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE11233 | 2 | 12-May-21 | 17-May-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0287

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly EFF |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/12/21 | 1130 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | 8.5/20.7 °C |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 05/11/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

RECEIVED
MAY 12 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (GPC) | 05/12/21 | 12:30 |
| Received by | | Cindy Mapanao | 5/12/21 | 12:30 |
| Relinquished by | | Cindy Mapanao | 5-12-21 | 13:50 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 12 2021 | | 13:50 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type | Preservations |
|---|---|---|---|
| Grab | AQ - Water | P - Plastic | HC - HCl |
| Comp | SO - Soil / Sludge | G - Amber Glass | HS - $H_2SO_4$ |
| | OT - Other | VOA - 40 ml Vial | HN - $HNO_3$ |
| | | Coli - bacteria | HP - $H_3PO_4$ |
| | | | OH - NaOH |
| | | | ST - Sodium Thiosulfate |
| | | | AA - Ascorbic Acid |
| | | | AI - $AlCl_3$ |
| | | | Cu - $CuSO_4$ |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 13:24
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0327-01) Collected: 13-May-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11338 | 1.8 | 13-May-21 | 16-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11338 | 1.8 | 13-May-21 | 16-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11507 | 0.1 | 13-May-21 | 13-May-21 | **7.7 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11409 | 0.05 | 14-May-21 | 14-May-21 | **0.12 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0327

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: ~~Ric Vardel / Golan Kfir~~ | P.O. #: |
| Irvine CA 92618 | | Report Attention: | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/13/21 | 12:00 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.7 / 21 - 6.C |
| | 1 | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Julio Leal | 5/13/21 | 12:50 |
| Received by | Cindy Mamher | 5-13-21 | 12:50 |
| Relinquished by | Cindy Mamher | 5-13-21 | 1345 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | MARIO SANTIESTEBAN (PCL) | 5/13/21 | 1345 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| **Grab** | **HC** - HCl |
| **Comp** | **HS** - $H_2SO_4$ |
| **Matrix** | **HN** - $HNO_3$ |
| **AQ** - Water | **HP** - $H_3PO_4$ |
| **SO** -Soil / Sludge | **OH** - NaOH |
| **OT** - Other | **ST** - Sodium Thiosulfate |
| **Bottle Type** | **AA** - Ascorbic Acid |
| **P** - Plastic | **Al** - $AlCl_3$ |
| **G** - Amber Glass | **Cu** -$CuSO_4$ |
| **VOA** - 40 ml Vial | |
| **Coli** - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 13:27
Subject: (MCC) Daily EFF

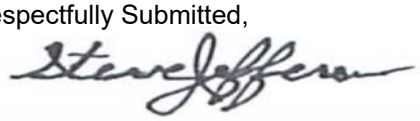
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0335-01) Collected: 14-May-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11414 | 1.8 | 14-May-21 | 16-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11414 | 1.8 | 14-May-21 | 16-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11507 | 0.1 | 14-May-21 | 14-May-21 | **8.1 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11506 | 0.05 | 15-May-21 | 15-May-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0335

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Mario Aguirre |
| | | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/14/21 | 11:08 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 8 1/22 14 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 14 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 5/14/21 | 11:15 |
| Received by | Cindy Moyner | 5-14-21 | 11:30 |
| Relinquished by | Cindy Moyner | 5-14-21 | 13:20 |
| Received by | | | |
| Relinquished by | | | |
| Received in Lab by | | MAY 14 2021 | 13:20 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 13:29
Subject: (MCC) Daily EFF

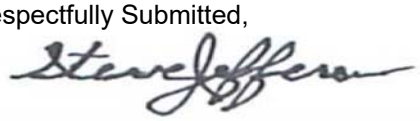
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0356-01) Collected: 15-May-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11505 | 1.8 | 15-May-21 | 17-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11505 | 1.8 | 15-May-21 | 17-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11514 | 0.1 | 15-May-21 | 15-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11513 | 0.05 | 15-May-21 | 15-May-21 | **0.10 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0356

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive, Irvine, CA 92618 | | Sampled by: Jesus Avalos / Ric Vardel / Golan Kfir | P.O. #: 949-382-9067 |
| | | Report Attention: | Phone #: |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/15/21 | 10:55 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Geotracker EDD:<br>Logcode: IPCI<br>Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 5/15/21 | 11:00 |
| Received by: | Richard Mtg (PCL) | 5/15/21 | 1115 |
| Relinquished by: | Richard Mtg | 5/15/21 | 1230 |
| Received by: | | | |
| Relinquished by | | | |
| Received in lab by | | | |

**Sample Received Checklist**

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:34
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0363-01) Collected: 16-May-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11630 | 1.8 | 16-May-21 | 19-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11630 | 1.8 | 16-May-21 | 19-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE11636 | 0.1 | 16-May-21 | 16-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11635 | 0.05 | 16-May-21 | 16-May-21 | **0.18 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0363

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | | Sampled by: ERIC MORRIS<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/16/21 | 10:24 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | E. MORRIS IPC | 5/16/21 | 10:27 |
| Received by | Juan Vasquez (PCL) | 5/16/21 | 10:57 |
| Relinquished by | Juan V. (PCL) | 5/16/21 | 13:50 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JordanCorkery | 5/16/21 | 1350 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | (Yes) | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO -Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**

- HC - HCl
- HS - $H_2SO_4$
- HN - $HNO_3$
- HP - $H_3PO_4$
- OH - NaOH
- ST - Sodium Thiosulfate
- AA - Ascorbic Acid
- Al - $AlCl_3$
- Cu - $CuSO_4$

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(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:37
Subject: (MCC) Daily EFF

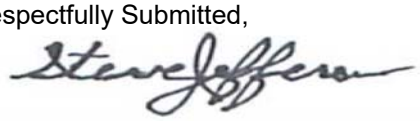
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0387-01) Collected: 17-May-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11735 | 1.8 | 17-May-21 | 19-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11735 | 1.8 | 17-May-21 | 19-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12206 | 0.1 | 17-May-21 | 17-May-21 | **7.0 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11736 | 0.05 | 17-May-21 | 17-May-21 | **0.19 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0387

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Mario Aguirre<br>Ric Vardei / Golan Kfir |
| | | Report Attention: | |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/17/21 | 11:25 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.0/23.1°C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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MAY 17 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 5/17/21 | 11:29 |
| Received by | Juan Vasquez (PCL) | 5/17/21 | 12:27 |
| Relinquished by | Juan Vasquez (PCL) | 5/17/21 | 13:20 |
| Received by | | | |
| Relinquished by | | | |
| Received (Lab) by | MAY 17 2021 | | 13:26 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO -Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 13:42
Subject: (MCC) Daily EFF

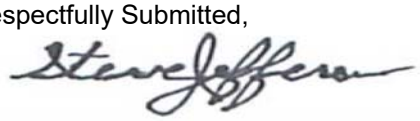
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0420-01) Collected: 18-May-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11835 | 1.8 | 18-May-21 | 20-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11835 | 1.8 | 18-May-21 | 20-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12206 | 0.1 | 18-May-21 | 18-May-21 | **6.8 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE11929 | 0.05 | 19-May-21 | 19-May-21 | **0.13 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 26-May-21 10:46
Subject: (MCC) Weekly INF

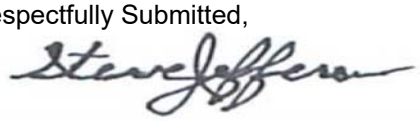
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21E0460-01) Collected: 18-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE12044 | 1 | 20-May-21 | 21-May-21 | **248 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE12038 | 2 | 20-May-21 | 25-May-21 | **435 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/26/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0460

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consuitants, Inc. | Project : | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | CA |
| | Irvine - CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 05/18/21 | 0800 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| " | " | " | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

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MAY 19 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 05/19/20 | 12:19 |
| Received by | | Juan Vasquez (PCL) | 5/19/20 | 12:19 |
| Relinquished by | | Juan Vasquez (PCL) | 5/19/21 | 13:25 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 19 2021 | | 13:25 |

**Sample Received Checklist**

| | | |
|---|---|---|
| Temperature upon receipt: | 4°C | |
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 24-May-21 13:45
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0453-01) Collected: 19-May-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE11932 | 1.8 | 19-May-21 | 21-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE11932 | 1.8 | 19-May-21 | 21-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12206 | 0.1 | 19-May-21 | 19-May-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12035 | 0.05 | 20-May-21 | 20-May-21 | **0.10 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0453

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive, Irvine CA 92618 | | Sampled by: Ric Vardell / Golan Kfir | P.O. #: Phone #: 949-382-9067 |
| | | Report Attention: | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/19/21 | 1145 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2 / 23.7°C |
| 1 | 1 | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 19 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (SPL) | 05/19/21 | 12:15 |
| Received by | | Juan Vasquez (PCL) | 5/19/21 | 12:15 |
| Relinquished by | | Juan Vasquez (PCL) | 5/19/21 | 13:25 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 19 2021 | | 13:25 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | Al - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 26-May-21 10:42
Subject: (MCC) Weekly EFF

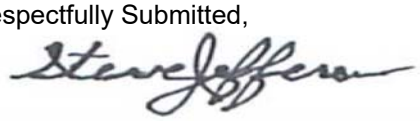
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0462-01) Collected: 19-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE12044 | 1 | 20-May-21 | 21-May-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AE12033 | 0.10 | 20-May-21 | 20-May-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AE12043 | 0.25 | 20-May-21 | 20-May-21 | **1.77 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AE12043 | 0.05 | 20-May-21 | 20-May-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AE12027 | 0.10 | 20-May-21 | 21-May-21 | **0.67 mg/l** | |
| **EFF (Sample I.D.# : 21E0462-02) Collected: 18-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE12038 | 2 | 20-May-21 | 25-May-21 | **3 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/26/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0462

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Weekly EFF |
| Address: | 9297 Research Drive | Sampled by: | C-D |
| | Irvine CA 92618 | Report Attention: | Rio Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/19/21 | 1145 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| | \| | \| | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| \| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 05/18/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

RECEIVED
MAY 19 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (PCL) | 05/19/21 | 12:23 |
| Received by | | Juan Vasquez (PCL) | 5/19/21 | 12:23 |
| Relinquished by | | Juan Vasquez (PCL) | 5/19/21 | 13:25 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 19 2021 | 13:25 | |

**Sample Received Checklist**

Temperature upon receipt: 4° C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 16:35
Subject: (MCC) Daily EFF

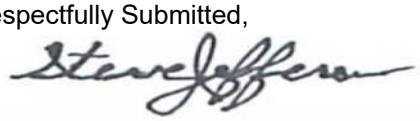
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0483-01) Collected: 20-May-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12040 | 1.8 | 20-May-21 | 22-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12040 | 1.8 | 20-May-21 | 22-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12206 | 0.1 | 20-May-21 | 20-May-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12107 | 0.05 | 21-May-21 | 21-May-21 | **0.16 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0483

Customer: IPC - Integrated Performance Consultants, Inc.
Project: (MCC) Daily EFF

Address: 9297 Research Drive
Irvine CA 92618

Sampled by: Marie Aguirre
Report Attention: Ric Vardel // Golan Kfir

P.O. #:
Phone #: 949-382-9067

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/20/21 | 10:52 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2/22.5 °C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 20 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Marie Aguirre (IPC) | 5/20/21 | 11:00 |
| Received by | | Cindy Martinez | 5/20/21 | 13:00 |
| Relinquished by | | Cindy Martinez | 5/20/21 | 1455 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 20 2021 | | 1455 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-May-21 16:38
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0508-01) Collected: 21-May-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12104 | 1.8 | 21-May-21 | 23-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12104 | 1.8 | 21-May-21 | 23-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12206 | 0.1 | 21-May-21 | 21-May-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12205 | 0.05 | 22-May-21 | 22-May-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 5/24/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0508

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : ~ | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Mario Aguirre<br>Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 |
| | | Report Attention: | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/21/21 | 11:15 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2/21.6 C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 21 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 5/21/21 | 11:23 |
| Received by | | Cindy Martinez | 5/21/21 | 1150 |
| Relinquished by | | Cindy Martinez | 5/21/21 | 1345 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 21 2021 | | 1345 |

**Sample Received Checklist**

Temperature upon receipt: 4.0

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 02-Jun-21 14:13
Subject: (MCC) Daily EFF

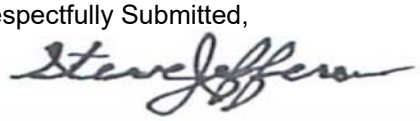
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0517-01) Collected: 22-May-21 By M.A. of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12204 | 1.8 | 22-May-21 | 24-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12204 | 1.8 | 22-May-21 | 24-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12214 | 0.1 | 22-May-21 | 22-May-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12213 | 0.05 | 22-May-21 | 22-May-21 | **0.21 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/2/2021
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 02-Jun-21 14:15
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0523-01) Collected: 23-May-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12434 | 1.8 | 23-May-21 | 27-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12434 | 1.8 | 23-May-21 | 27-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12908 | 0.1 | 23-May-21 | 23-May-21 | **7.8 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12431 | 0.05 | 24-May-21 | 24-May-21 | **0.28 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0523

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | ERIC MORRIS<br>Ric Vardel / Golan Kfir |
| | | Report Attention: | |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/23/21 | 955 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 23 2021
By Jordan C.

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | E. MORRIS IPC | 5/23/21 | 10 00 |
| Received by | Juan Vasquez (PCL) | 5/23/21 | 10:15 |
| Relinquished by | Juan Vasquez (PCL) | 5/23/21 | 13:30 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | Jordan C. | 5/23/21 | 13:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type | Preservations |
|---|---|---|---|
| Grab | AQ - Water | P - Plastic | HC - HCl |
| Comp | SO -Soil / Sludge | G - Amber Glass | HS - $H_2SO_4$ |
| | OT - Other | VOA - 40 ml Vial | HN - $HNO_3$ |
| | | Coli - bacteria | HP - $H_3PO_4$ |
| | | | OH - NaOH |
| | | | ST - Sodium Thiosulfate |
| | | | AA - Ascorbic Acid |
| | | | Al - $AlCl_3$ |
| | | | Cu -$CuSO_4$ |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Jun-21 14:19
Subject: (MCC) Daily EFF

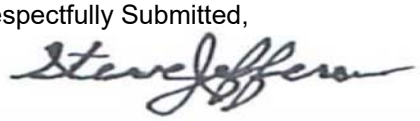
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0536-01) Collected: 24-May-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12434 | 1.8 | 24-May-21 | 28-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12434 | 1.8 | 24-May-21 | 28-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12908 | 0.1 | 24-May-21 | 24-May-21 | **7.1 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12540 | 0.05 | 25-May-21 | 25-May-21 | **0.14 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0536

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive, Irvine CA 92618 | Sampled by: Mario Aguirre | P.O. #: | |
| | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/24/21 | 11:05 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.1 / 8.7 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
MAY 24 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 5/24/21 | 11:12 |
| Received by | | Cindy Martinez | 5/24/21 | 12:00 |
| Relinquished by | | Cindy Martinez | 5/24/21 | 14:0 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | | MAY 24 2021 | 1401 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**

HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Jun-21 14:50
Subject: (MCC) Daily EFF

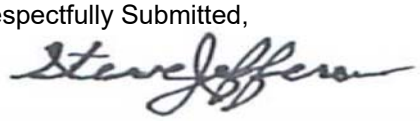
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0560-01) Collected: 25-May-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12538 | 1.8 | 25-May-21 | 28-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12538 | 1.8 | 25-May-21 | 28-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12908 | 0.1 | 25-May-21 | 25-May-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12631 | 0.05 | 26-May-21 | 26-May-21 | **0.09 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0560

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Mario Aguirre<br>Ric Vardel / Golan Kfir |
| | | Report Attention: | |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/25/21 | 11:17 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| 〃 | 〃 | 〃 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Geotracker EDD:<br>Logcode: IPCI<br>Global ID: WDR100000359 | | | | | | | | | |

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 5/25/21 | 11:20 |
| Received by | | Richard Martinez PCL | 5/25/21 | 1305 |
| Relinquished by | | Richard Martinez | 5/25/21 | 1600 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MARIA SAN ESTEBAN (PCL) | 5/25/21 | 1600 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 02-Jun-21 15:09
Subject: (MCC) Weekly INF

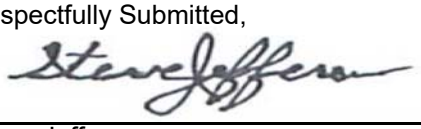
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21E0595-01) Collected: 25-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE12735 | 1 | 27-May-21 | 27-May-21 | **200 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE12732 | 2 | 27-May-21 | 01-Jun-21 | **525 mg/l** | |

**Notes and Definitions**

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0595

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | C H |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 05/25/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| | | | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

RECEIVED
MAY 26 2021
B

Geotracker EDD:
Logcode: IPC!
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez CPC | 05/26/21 | 1310 |
| Received by | | Richard Martinez PCL | 5/26/21 | 1310 |
| Relinquished by | | Richard Martinez | 5/26/21 | 1430 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 26 2021 | | 14:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| (Grab) Comp | (AQ) - Water | (P) - Plastic |
| | SO -Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**

- **HC** - HCl
- **HS** - $H_2SO_4$
- **HN** - $HNO_3$
- **HP** - $H_3PO_4$
- **OH** - NaOH
- **ST** - Sodium Thiosulfate
- **AA** - Ascorbic Acid
- **AI** - $AlCl_3$
- **Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Jun-21 14:53
Subject: (MCC) Daily EFF

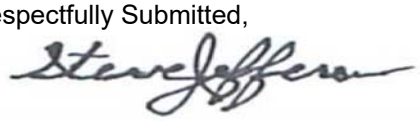
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0592-01) Collected: 26-May-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12638 | 1.8 | 26-May-21 | 28-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12638 | 1.8 | 26-May-21 | 28-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12908 | 0.1 | 26-May-21 | 26-May-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12737 | 0.05 | 27-May-21 | 27-May-21 | **0.06 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0592

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Eric Vardel / Golan Kfir |
| | | Report Attention: | |
| | | P.O. #: | 949-382-9067 |
| | | Phone #: | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/26/21 | 1210 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| 1 | 1 | 1 | | | | | | | |

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez Cano | 05/26/21 | 1310 |
| Received by | | Richard Martinez PCL | 5/26/21 | 1310 |
| Relinquished by | | Richard Martinez | 5/26/21 | 1430 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 26 2021 | | 14:30 |

**Sample Received Checklist**

Temperature upon receipt: 4° C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Jun-21 15:06
Subject: (MCC) Weekly EFF

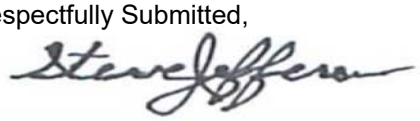
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0598-01) Collected: 26-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AE12735 | 1 | 27-May-21 | 27-May-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AE12734 | 0.10 | 27-May-21 | 27-May-21 | **0.18 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AE12738 | 0.05 | 27-May-21 | 27-May-21 | **0.45 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AE12738 | 0.05 | 27-May-21 | 27-May-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AF10118 | 0.10 | 01-Jun-21 | 02-Jun-21 | **0.53 mg/l** | |
| **EFF (Sample I.D.# : 21E0598-02) Collected: 25-May-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AE12732 | 2 | 27-May-21 | 01-Jun-21 | **2 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0593

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | **(MCC) Weekly EFF** |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 05/26/21 | 1210 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| | \| | \| | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 05/25/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

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MAY 26 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 05/26/21 | 1310 |
| Received by | | Richard Martinez (PCL) | 5/26/21 | 1310 |
| Relinquished by | | Richard Martinez | 5/26/21 | 1430 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in Lab by | | MAY 26 2021 | | 14:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab<br>Comp | HC - HCl<br>HS - $H_2SO_4$<br>HN - $HNO_3$<br>HP - $H_3PO_4$<br>OH - NaOH<br>ST - Sodium Thiosulfate<br>AA - Ascorbic Acid<br>AI - $AlCl_3$<br>Cu - $CuSO_4$ |
| **Matrix**<br>AQ - Water<br>SO - Soil / Sludge<br>OT - Other | |
| **Bottle Type**<br>P - Plastic<br>G - Amber Glass<br>VOA - 40 ml Vial<br>Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 02-Jun-21 14:56
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0618-01) Collected: 27-May-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12739 | 1.8 | 27-May-21 | 29-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12739 | 1.8 | 27-May-21 | 29-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12908 | 0.1 | 27-May-21 | 27-May-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12805 | 0.05 | 28-May-21 | 28-May-21 | **0.07 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0618

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive, Irvine, CA 92618 | | Sampled by: Mario Aguirre / Ric Vardel / Golan Kfir | P.O. #: |
| | | Report Attention: | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/27/21 | 11:25 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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MAY 27 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 5/27/21 | 11:28 |
| Received by | | Richard Martinez PCL | 5/27/21 | 1220 |
| Relinquished by | | Richard Martinez | 5/27/21 | 1350 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | | MAY 27 2021 | 13:30 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

Initial Flow _____

Final Flow _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Jun-21 14:58
Subject: (MCC) Daily EFF

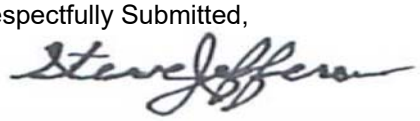
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0635-01) Collected: 28-May-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12817 | 1.8 | 28-May-21 | 30-May-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12817 | 1.8 | 28-May-21 | 30-May-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12908 | 0.1 | 28-May-21 | 28-May-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12906 | 0.05 | 29-May-21 | 29-May-21 | **0.06 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0635

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive, Irvine CA 92618 | | Sampled by: Mario Aguirre / Ric Vardel / Golan Kur | P.O. #: 949-382-9067 |
| | | Report Attention: | Phone #: |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/28/21 | 11:20 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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MAY 28 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 5/28/21 | 11:25 |
| Received by | | Richard Martinez Pat | 5/28/21 | 1250 |
| Relinquished by | | Richard Pat | 5/28/21 | 1515 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 28 2021 | | 15:15 |

**Sample Received Checklist** 4°C

| | | |
|---|---|---|
| Temperature upon receipt: | | |
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| (Grab) | (AQ) - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
ON - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Jun-21 15:02
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0643-01) Collected: 29-May-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE12905 | 1.8 | 29-May-21 | 01-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE12905 | 1.8 | 29-May-21 | 01-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AE12914 | 0.1 | 29-May-21 | 29-May-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE12913 | 0.05 | 29-May-21 | 29-May-21 | **<0.05 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/2/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0643

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Jesus Avalos<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/29/21 | 10:30 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| 11 | 11 | 11 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 5/29/21 | 10:40 |
| Received by: | Richard Martinez PCL | 5/29/21 | 1110 |
| Relinquished by: | | | |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | Richard Martinez PCL | 5/29/21 | 1300 |

**Sample Received Checklist**

Temperature upon receipt: _____
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| **Grab**<br>**Comp** | **HC** - HCl<br>**HS** - $H_2SO_4$ |
| **Matrix**<br>**AQ** - Water<br>**SO** -Soil / Sludge<br>**OT** - Other | **HN** - $HNO_3$<br>**HP** - $H_3PO_4$<br>**OH** - NaOH<br>**ST** - Sodium Thiosulfate<br>**AA** - Ascorbic Acid |
| **Bottle Type**<br>**P** - Plastic<br>**G** - Amber Glass<br>**VOA** - 40 ml Vial<br>**Coli** - bacteria | **Al** - $AlCl_3$<br>**Cu** - $CuSO_4$ |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 07-Jun-21 10:34
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21E0649-01) Collected: 30-May-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AE13003 | 1.8 | 30-May-21 | 02-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AE13003 | 1.8 | 30-May-21 | 02-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10509 | 0.1 | 30-May-21 | 30-May-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AE13009 | 0.05 | 30-May-21 | 30-May-21 | **0.13 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/7/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21E0649

Customer: IPC - Integrated Performance Consultants, Inc.
Project: (MCC) Daily EFF
Address: 9297 Research Drive, Irvine, CA 92618
Sampled by: ERIC MORRIS
Report Attention: Ric Vardel / Golan Kfir
P.O. #:
Phone #: 949-382-9067

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/30/21 | 1027 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2 °C / 17.2 |
| | 〃 | 〃 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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MAY 30 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | E. MORRIS IPC | 5/30/21 | 1030 |
| Received by | Juan Vasquez (PCL) | 5/30/21 | 11:12 |
| Relinquished by | Juan Vasquez (PCL) | 5/30/21 | 12:58 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | MAY 30 2021 | 2:58 | |

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 07-Jun-21 10:38
Subject: (MCC) Daily EFF

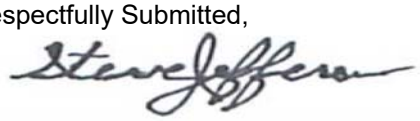
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0004-01) Collected: 31-May-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10127 | 1.8 | 01-Jun-21 | 05-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10127 | 1.8 | 01-Jun-21 | 05-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10509 | 0.1 | 31-May-21 | 31-May-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10220 | 0.05 | 02-Jun-21 | 02-Jun-21 | **0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/7/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0004

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | ERIC MORRIS |
| | | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 5/31/21 | 1031 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2/20.0 |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | " | " | | | | | | | |

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MAY 31 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | E. MORRIS IPC | 5/31/21 | 1035 |
| Received by | | Cindy Mabry | 5/31/21 | 1055 |
| Relinquished by | | Cindy Mabry | 5/31/21 | ~~1052~~ 12:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MAY 31 2021 | | 12:30 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| (Grab) Comp | HC - HCl |
| **Matrix** | HS - $H_2SO_4$ |
| (AQ) - Water | HN - $HNO_3$ |
| SO -Soil / Sludge | HP - $H_3PO_4$ |
| OT - Other | OH - NaOH |
| **Bottle Type** | (ST) Sodium Thiosulfate |
| (P) Plastic | AA - Ascorbic Acid |
| G - Amber Glass | Al - $AlCl_3$ |
| VOA - 40 ml Vial | Cu -$CuSO_4$ |
| (Coli) - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 07-Jun-21 10:41
Subject: (MCC) Daily EFF

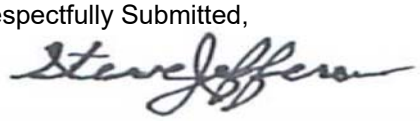
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0025-01) Collected: 01-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10127 | 1.8 | 01-Jun-21 | 03-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10127 | 1.8 | 01-Jun-21 | 03-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10509 | 0.1 | 01-Jun-21 | 01-Jun-21 | **7.8 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10220 | 0.05 | 02-Jun-21 | 02-Jun-21 | **0.09 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/7/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0025

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Mario Aguirre |
| | | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/1/21 | ~~11:12~~ 11:12 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | 11:12 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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JUN 01 2021
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/1/21 | 11:18 |
| Received by | | Richard Martinez PC | 6/1/21 | 1320 |
| Relinquished by | | Richard Martinez | 6/1/21 | 1500 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | | JUN 01 2021 | 1500 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type | Preservations |
|---|---|---|---|
| Grab | AQ - Water | P - Plastic | HC - HCl |
| Comp | SO - Soil / Sludge | G - Amber Glass | HS - $H_2SO_4$ |
| | OT - Other | VOA - 40 ml Vial | HN - $HNO_3$ |
| | | Coli - bacteria | HP - $H_3PO_4$ |
| | | | OH - NaOH |
| | | | ST - Sodium Thiosulfate |
| | | | AA - Ascorbic Acid |
| | | | AI - $AlCl_3$ |
| | | | Cu - $CuSO_4$ |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 08-Jun-21 18:12
Subject: (MCC) Weekly INF

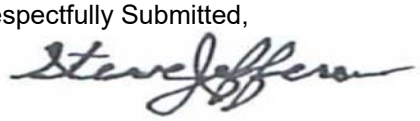
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21F0068-01) Collected: 01-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF10328 | 1 | 03-Jun-21 | 08-Jun-21 | **114 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF10223 | 2 | 02-Jun-21 | 07-Jun-21 | **573 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/8/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0068

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | Maria Aguirre |
| | Irvine – CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 6/1/21 | 0:00 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | 7.0 / 18.4 °C |
| " | " | " | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

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JUN 02 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Maria Aguirre IPC | 6/2/21 | 11:51 |
| Received by | | Cindy Murray | 6.2.21 | 12:20 |
| Relinquished by | | Cindy MARTINEZ | 6.2.21 | 13:40 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 02 2021 | | 1340 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 08-Jun-21 17:57
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0056-01) Collected: 02-Jun-21 By Mario Aguirre of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10228 | 1.8 | 02-Jun-21 | 04-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10228 | 1.8 | 02-Jun-21 | 04-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10509 | 0.1 | 02-Jun-21 | 02-Jun-21 | **7.7 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10321 | 0.05 | 03-Jun-21 | 03-Jun-21 | **0.08 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/8/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0056

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: | Mario Aguirre |
| | | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH / Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/2/21 | 11:37 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.7 / 24.1 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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JUN 02 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 6/2/21 | 11:51 |
| Received by | Cindy Martinez | 6.2.21 | 12:20 |
| Relinquished by | Cindy Martinez | 6.2.21 | 13:40 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUN 02 2021 | | 1340 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | |
|---|---|
| # of bottles agrees with COC? | Yes / No |
| Samples intact? | Yes / No |
| Samples properly preserved? | Yes / No |
| Samples in holding time? | Yes / No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | AI - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 08-Jun-21 18:09
Subject: (MCC) Weekly EFF

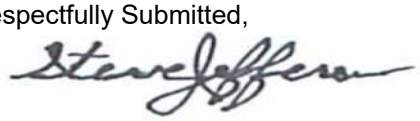
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0057-01) Collected: 02-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF10328 | 1 | 03-Jun-21 | 08-Jun-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AF10322 | 0.10 | 03-Jun-21 | 03-Jun-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AF10410 | 0.05 | 03-Jun-21 | 03-Jun-21 | **0.16 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AF10410 | 0.05 | 03-Jun-21 | 03-Jun-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AF10320 | 0.10 | 03-Jun-21 | 04-Jun-21 | **0.65 mg/l** | |
| **EFF (Sample I.D.# : 21F0057-02) Collected: 01-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF10223 | 2 | 02-Jun-21 | 07-Jun-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/8/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0057

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | **(MCC) Weekly EFF** |
| Address: | 9297 Research Drive | Sampled by: | Mario A. |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH/Temperature) pH: ~~Field~~ Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/2/21 | 11:40 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | 7-6./23 |
| " | " | " | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| " | 6/1/21 | 0:00 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

RECEIVED
JUN 02 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 6/2/21 | 11:51 |
| Received by | Cindy Martinez | 6.2.21 | 12:20 |
| Relinquished by | Cindy MARTINEZ | 6.2.21 | 13:40 |
| Received by | | | |
| Relinquished by | | | |
| Received for Lab by | | JUN 02 2021 | 1340 |

**Sample Received Checklist** 4°C

| | | |
|---|---|---|
| Temperature upon receipt: | | |
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 08-Jun-21 18:00
Subject: (MCC) Daily EFF

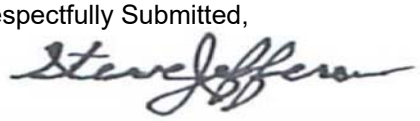
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0106-01) Collected: 03-Jun-21 By Golan Kfir of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10329 | 1.8 | 03-Jun-21 | 05-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10329 | 1.8 | 03-Jun-21 | 05-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10509 | 0.1 | 03-Jun-21 | 03-Jun-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10321 | 0.05 | 03-Jun-21 | 03-Jun-21 | **0.17 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/8/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21FC0106

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Golan Kfir<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/3/21 | 11:40 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.6/21.5 |
| | 〃 | 〃 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 03 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Golan IPC | 6/3/21 | 12:30 |
| Received by | Cindy Martinez | 6.3.21 | 12:30 |
| Relinquished by | Cindy Martinez | 6.3.21 | 1345 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUN 03 2021 | | 1345 |

**Sample Received Checklist** 4°C

| | |
|---|---|
| Temperature upon receipt: | |
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**
**Initial Flow** _____
**Final Flow** _____

Sample Type: Grab, Comp

Matrix: AQ - Water; SO - Soil / Sludge; OT - Other

Bottle Type: P - Plastic; G - Amber Glass; VOA - 40 ml Vial; Coli - bacteria

Preservations: HC - HCl; HS - $H_2SO_4$; HN - $HNO_3$; HP - $H_3PO_4$; OH - NaOH; ST - Sodium Thiosulfate; AA - Ascorbic Acid; AI - $AlCl_3$; Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 08-Jun-21 18:02
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0143-01) Collected: 04-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10415 | 1.8 | 04-Jun-21 | 06-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10415 | 1.8 | 04-Jun-21 | 06-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10509 | 0.1 | 04-Jun-21 | 04-Jun-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10505 | 0.05 | 05-Jun-21 | 05-Jun-21 | **0.14 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/8/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 2170143

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Mario Aguirre<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/4/21 | 11:41 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.4 / 27.6 C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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JUN 04 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/4/21 | 11:48 |
| Received by | | Cindy Marmon | 6.4.21 | 1230 |
| Relinquished by | | Cindy Marmon | 6-4-21 | 14:00 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 04 2021 | | 1400 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 08-Jun-21 18:04
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0152-01) Collected: 05-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10508 | 1.8 | 05-Jun-21 | 07-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10508 | 1.8 | 05-Jun-21 | 07-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10629 | 0.1 | 05-Jun-21 | 05-Jun-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10514 | 0.05 | 05-Jun-21 | 05-Jun-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/8/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0152

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Jesus Avalos<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/3/21 | 10:35 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| 1/ | 6/ | C/ | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Geotracker EDD:<br>Logcode: IPCI<br>Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 6/5/21 | 10:40 |
| Received by: | Richard Martinez PCL | 6/5/21 | 1115 |
| Relinquished by: | | | |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | Richard Martinez | 6/5/21 | 1255 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | (Yes) | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

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San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 08-Jun-21 18:07
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0161-01) Collected: 06-Jun-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10624 | 1.8 | 06-Jun-21 | 08-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10624 | 1.8 | 06-Jun-21 | 08-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF10629 | 0.1 | 06-Jun-21 | 06-Jun-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10626 | 0.05 | 06-Jun-21 | 06-Jun-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/8/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 20501601

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: E. MORRIS<br>Report Attention: Ric Vardel / Golan Kfir | P.O. #:<br>Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/6/21 | 950 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2 |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: E. Morris | ERIC MORRIS IPC | 6/6/21 | 955 |
| Received by: Juan Vasquez | Juan Vasquez (PCL) | 6/6/21 | 9:55 |
| Relinquished by: Juan V. | Juan V. (PCL) | 6/6/21 | 11:45 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by: Jordan Corkery | Jordan Corkery | 6/6/21 | 1145 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** -$CuSO_4$

*Rev 2 Effective 5/1/17*

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pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Jun-21 18:14
Subject: (MCC) Daily EFF

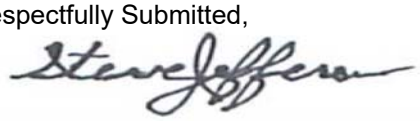
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0186-01) Collected: 07-Jun-21 By Kyle Vardel** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10727 | 1.8 | 07-Jun-21 | 09-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10727 | 1.8 | 07-Jun-21 | 09-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11205 | 0.1 | 07-Jun-21 | 07-Jun-21 | **6.9 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10735 | 0.05 | 07-Jun-21 | 07-Jun-21 | **0.18 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/14/2021
Laboratory Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Jun-21 10:27
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0215-01) Collected: 08-Jun-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10831 | 1.8 | 08-Jun-21 | 10-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10831 | 1.8 | 08-Jun-21 | 10-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11205 | 0.1 | 08-Jun-21 | 08-Jun-21 | **6.8 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF10924 | 0.05 | 09-Jun-21 | 09-Jun-21 | **0.06 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0215

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: Golan Kfir | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/8/21 | 9:35 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 6.8/21.2** |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 08 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: GK | Golan IPC | 6/8/21 | 11:43 |
| Received by: | Juan V. (PCL) | 6/8/21 | 11:43 |
| Relinquished by: | Juan V. (PCL) | 6/8/21 | 13:55 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in Lab by: | JUN 08 2021 | | 1355 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**

HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 16-Jun-21 16:03
Subject: (MCC) Weekly INF

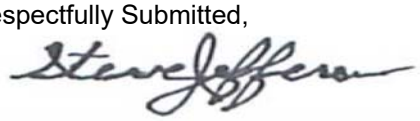
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21F0278-01) Collected: 08-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF11034 | 1 | 10-Jun-21 | 11-Jun-21 | **241 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF11027 | 2 | 10-Jun-21 | 15-Jun-21 | **365 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/16/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0278

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | Julio Lara |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 06/8/21 | 00:00 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| | 1 | 1 | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

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~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Julio Lara | 6-9-21 | 1300 |
| Received by | Richard Vardel RVL | 6/9/21 | 1300 |
| Relinquished by | Richard Martinez | 6/9/21 | 1520 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUN 09 2021 | | 1520 |

**Sample Received Checklist** 4.0

| | |
|---|---|
| Temperature upon receipt: | 4 |
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**
**Initial Flow** _____
**Final Flow** _____

**Sample Type**
~~Grab~~
(Comp)

**Matrix**
(AQ) - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
(P) - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**Al** - $AlCl_3$
**Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Jun-21 10:31
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0272-01) Collected: 09-Jun-21 By JL of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF10929 | 1.8 | 09-Jun-21 | 12-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF10929 | 1.8 | 09-Jun-21 | 12-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11205 | 0.1 | 09-Jun-21 | 09-Jun-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11030 | 0.05 | 10-Jun-21 | 10-Jun-21 | **0.09 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0272

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: ~~Ric Vaadel / Golan Kfir~~ | P.O. #: | |
| | Report Attention: | Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/9/21 | 12:00 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| | 1 | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Julio Lepe | 6-9-21 | 1300 |
| Received by | Richard Ruiz ICA | 6/9/21 | 1300 |
| Relinquished by | Richard Martinez | 6/9/21 | 1520 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUN 09 2021 | | 1520 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 16-Jun-21 17:03
Subject: (MCC) Weekly EFF

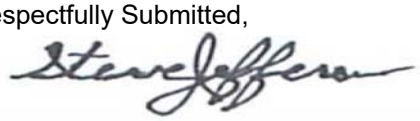
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0277-01) Collected: 09-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF11034 | 1 | 10-Jun-21 | 11-Jun-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AF11029 | 0.10 | 10-Jun-21 | 10-Jun-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AF11038 | 0.05 | 10-Jun-21 | 10-Jun-21 | **0.62 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AF11038 | 0.05 | 10-Jun-21 | 10-Jun-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AF11528 | 0.10 | 15-Jun-21 | 16-Jun-21 | **0.23 mg/l** | |
| **EFF (Sample I.D.# : 21F0277-02) Collected: 08-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF11027 | 2 | 10-Jun-21 | 15-Jun-21 | **8 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/16/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0277

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | **(MCC)** Weekly EFF |
| Address: | 9297 Research Drive | Sampled by: | Julio Lara |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 060921 | 12:05 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 060821 | 00:00 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

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Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Julio Lara | 6-9-21 | 1300 |
| Received by | Richard Martinez PCL | 6/9/21 | 1300 |
| Relinquished by | Richard Martinez | 6/9/21 | 1520 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUN 09 2021 | | 1520 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | (Yes) | No |
| Samples intact? | (Yes) | No |
| Samples properly preserved? | (Yes) | No |
| Samples in holding time? | (Yes) | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| (Grab) | (AQ) - Water | (P) - Plastic |
| (Comp) | SO -Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 15-Jun-21 10:35
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0312-01) Collected: 10-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11037 | 1.8 | 10-Jun-21 | 12-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11037 | 1.8 | 10-Jun-21 | 12-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11205 | 0.1 | 10-Jun-21 | 10-Jun-21 | **7.0 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11107 | 0.05 | 11-Jun-21 | 11-Jun-21 | **0.10 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample** 21F0312

**Sample I.D.#:** ~~21F0310 GW~~

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Mario Aguirre |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/10/21 | 11:07 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.0 / 22.1 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

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| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 6/10/21 | 11:11 |
| Received by | Juan V. (PCL) | 6/10/21 | 1205 |
| Relinquished by | Juan V. (PCL) | 6/10/21 | 15:22 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUN 10 2021 | | 1322 |

**Sample Received Checklist**

Temperature upon receipt: 4

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 15-Jun-21 10:40
Subject: (MCC) Daily EFF

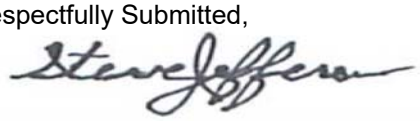
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0343-01) Collected: 11-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11110 | 1.8 | 11-Jun-21 | 13-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11110 | 1.8 | 11-Jun-21 | 13-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11205 | 0.1 | 11-Jun-21 | 11-Jun-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11107 | 0.05 | 11-Jun-21 | 11-Jun-21 | **0.18 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0343

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive | Sampled by: Mario Aguirre | P.O. #: | |
| Irvine CA 92618 | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/11/21 | 11:30 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| 〃 | 〃 | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/11/21 | 11:42 |
| Received by | | Richard Martinez PCL | 6/11/21 | 1250 |
| Relinquished by | | Richard Martinez | 6/11/21 | 1410 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | | | 1410 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4 - C

# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

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LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 18-Jun-21 14:48
Subject: (MCC) Monthly EFF

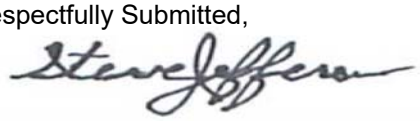
Project/P.O.#: (MCC) Monthly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0342-01) Collected: 11-Jun-21 By MA of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Dissolved Solids** | SM 2540C | AF11424 | 5 | 14-Jun-21 | 16-Jun-21 | **708 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Chloride** | EPA 300.0 | AF11625 | 20.0 | 16-Jun-21 | 17-Jun-21 | **177 mg/l** | |
| **Sulfate as SO4** | EPA 300.0 | AF11625 | 10.0 | 16-Jun-21 | 17-Jun-21 | **105 mg/l** | |
| **Boron** | EPA 200.7 | AF11418 | 0.10 | 14-Jun-21 | 16-Jun-21 | **0.33 mg/l** | |
| **Phosphorus, Total as P** | EPA 365.3 | AF11326 | 0.25 | 13-Jun-21 | 13-Jun-21 | **2.44 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **MBAS** | SM 5540 C | AF11538 | 0.20 | 15-Jun-21 | 15-Jun-21 | **0.31 mg/l** | |
| **Oil & Grease (HEM)** | EPA 1664A | AF11810 | 5 | 18-Jun-21 | 18-Jun-21 | **<5 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/18/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0342

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) EFF - Monthly | |
| Address: 9297 Research Drive<br>Irvine CA 92618 | Sampled by: Mario Aguirre | P.O. #: | |
| | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 | |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/11/21 | 11:35 | 1 | Sulfate, Chloride, TDS | Grab | AQ | 1/2 Gal. P | 4°C | |
| " | " | | 1 | MBAS | Grab | AQ | 500 P | 4°C | |
| " | " | | 1 | Oil & Grease | Grab | AQ | 1L G | HC | |
| " | " | | 1 | Boron | Grab | AQ | 250 P | HN | |
| " | " | | 1 | T.Phos | Grab | AQ | 500 P | 4°C | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI<br>Global ID: WDR100000359 | | | | | | | | | |

RECEIVED
JUN 11 2021
By

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 6/11/21 | 11:42 |
| Received by | Richard Martinez PCL | 6/11/21 | 1230 |
| Relinquished by | Richard Martinez | 6/11/21 | 1410 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUN 11 2021 | | 1410 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
(G) - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
(HC) - HCl
HS - $H_2SO_4$
(HN) - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 15-Jun-21 10:42
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0353-01) Collected: 12-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11204 | 1.8 | 12-Jun-21 | 14-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11204 | 1.8 | 12-Jun-21 | 14-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11209 | 0.1 | 12-Jun-21 | 12-Jun-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11212 | 0.05 | 12-Jun-21 | 12-Jun-21 | **0.10 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/15/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0353

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project:** (MCC) Daily EFF | |
| **Address:** 9297 Research Drive | | **Sampled by:** Jesus Avalos | **P.O. #:** |
| Irvine CA 92618 | | **Report Attention:** Ric Vardel / Golan Kfir | **Phone #:** 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/12/21 | 10:55 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.52/240 |
| 〃 | 〃 | 〃 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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| | | | | | | | | | |
| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 6/12/21 | 11:00 |
| Received by | Richard Martinez PCL | 6/12/21 | 1120 |
| Relinquished by | | | |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | Richard Martinez | 6/12/21 | 1320 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes / No |
| Samples intact? | Yes / No |
| Samples properly preserved? | Yes / No |
| Samples in holding time? | Yes / No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO -Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**

HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 16-Jun-21 15:49
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0359-01) Collected: 13-Jun-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11319 | 1.8 | 13-Jun-21 | 15-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11319 | 1.8 | 13-Jun-21 | 15-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11324 | 0.1 | 13-Jun-21 | 13-Jun-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11325 | 0.05 | 13-Jun-21 | 13-Jun-21 | **0.11 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/16/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0359

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: E. MORRIS | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/13/21 | 945 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2 |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | E. MORRIS IPC | 6/13/21 | 947 |
| Received by | | Juan V. (PCL) | 6/13/21 | 10:15 |
| Relinquished by | | Juan V. (PCL) | 6/13/21 | 12:12 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | Jordan Corkery | 6/17/21 | 1212 |

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 28-Jun-21 10:16
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0371-01) Collected: 14-Jun-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11425 | 1.8 | 14-Jun-21 | 17-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11425 | 1.8 | 14-Jun-21 | 17-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11905 | 0.1 | 14-Jun-21 | 14-Jun-21 | **6.7 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11529 | 0.05 | 15-Jun-21 | 15-Jun-21 | **0.10 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/28/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0371

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project :** (MCC) Daily EFF | |
| **Address:** 9297 Research Drive | | **Sampled by:** Golan Kfir | **P.O. #:** |
| Irvine CA 92618 | | **Report Attention:** Ric Vardel / Golan Kfir | **Phone #:** 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/14/21 | 12:00 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 6.7 / 26.2°C |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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JUN 14 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: GK | Golan IPC | 6/14/21 | 12:17 |
| Received by: | Juan V. (PCL) | 6/14/21 | 12:17 |
| Relinquished by: | Juan V. (PCL) | 6/14/21 | 13:27 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | | JUN 14 2021 | 1327 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | Al - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

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(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 29-Jun-21 17:13
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0407-01) Collected: 15-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11532 | 1.8 | 15-Jun-21 | 18-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11532 | 1.8 | 15-Jun-21 | 18-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11905 | 0.1 | 15-Jun-21 | 15-Jun-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11628 | 0.05 | 16-Jun-21 | 16-Jun-21 | **0.08 mg/l** | |

## Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0407

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/15/21 | 11:25 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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JUN 15 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/15/21 | 11:29 |
| Received by | | Richard Martinez | 6/15/21 | 1430 |
| Relinquished by | | Richard M/E | 6/15/21 | 1640 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 15 2021 | | 16:40 |

**Sample Received Checklist**

| | |
|---|---|
| Temperature upon receipt: | 4 °C |
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli)- bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 29-Jun-21 17:59
Subject: (MCC) Weekly INF

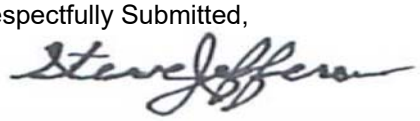
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21F0435-01) Collected: 15-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF11731 | 1 | 17-Jun-21 | 17-Jun-21 | **300 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF11631 | 2 | 16-Jun-21 | 21-Jun-21 | **413 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0435

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Weekly INF |
| **Address:** | 9297 Research Drive | **Sampled by:** | CD |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 06/15/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| " | " | " | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |
| | | | | | | | | | |
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| ~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Carlos Alvarez (GRC) | 06/16/21 | 1350 |
| Received by | Richard Martinez PCL | 6/16/21 | 1350 |
| Relinquished by | Richard Martinez | 6/16/21 | 1535 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | MARIO SANTIESTEBAN (PCL) | 6/16/21 | 1535 |

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| **Grab** | **HC** - HCl |
| **Comp** | **HS** - $H_2SO_4$ |
| **Matrix** | **HN** - $HNO_3$ |
| **AQ** - Water | **HP** - $H_3PO_4$ |
| **SO** -Soil / Sludge | **OH** - NaOH |
| **OT** - Other | **ST** - Sodium Thiosulfate |
| **Bottle Type** | **AA** - Ascorbic Acid |
| **P** - Plastic | **Al** - $AlCl_3$ |
| **G** - Amber Glass | **Cu** - $CuSO_4$ |
| **VOA** - 40 ml Vial | |
| **Coli** - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:16
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0437-01) Collected: 16-Jun-21 By C.A of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11632 | 1.8 | 16-Jun-21 | 18-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11632 | 1.8 | 16-Jun-21 | 18-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11905 | 0.1 | 16-Jun-21 | 16-Jun-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11628 | 0.05 | 16-Jun-21 | 16-Jun-21 | **0.32 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0437

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/16/21 | 1100 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (GPC) | 06/16/21 | 1350 |
| Received by | | Richard Martinez PCL | 6/16/21 | 1350 |
| Relinquished by | | Richard Martinez | 6/16/21 | 1535 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MARIO SANTISTEBAN (PCL) | 6/16/21 | 1535 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

| | |
|---|---|
| Temperature upon receipt: | 4°C |
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**Al** - $AlCl_3$
**Cu** - $CuSO_4$

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:53
Subject: (MCC) Weekly EFF

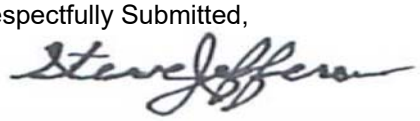
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0439-01) Collected: 16-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF11731 | 1 | 17-Jun-21 | 17-Jun-21 | **1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AF11808 | 0.10 | 18-Jun-21 | 19-Jun-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AF11739 | 0.05 | 17-Jun-21 | 17-Jun-21 | **1.24 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AF11739 | 0.05 | 17-Jun-21 | 17-Jun-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AF12132 | 0.10 | 21-Jun-21 | 22-Jun-21 | **1.09 mg/l** | |
| **EFF (Sample I.D.# : 21F0439-02) Collected: 15-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF11631 | 2 | 16-Jun-21 | 21-Jun-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0439

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | **(MCC)** Weekly **EFF** |
| Address: | 9297 Research Drive | Sampled by: | P.O. #: |
| | Irvine CA 92618 | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/16/21 | 1100 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 06/15/21 | 0060 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (SPC) | 06/16/21 | 1350 |
| Received by | | Richard Martinez PCL | 6/16/21 | 1350 |
| Relinquished by | | Richard Martinez | 6/16/21 | 1535 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | MARIO SANTIESTEBAN (PCL) | 6/16/21 | 1535 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4 °C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| **Grab** | **HC** - HCl |
| **Comp** | **HS** - $H_2SO_4$ |
| **Matrix** | **HN** - $HNO_3$ |
| **AQ** - Water | **HP** - $H_3PO_4$ |
| **SO** -Soil / Sludge | **OH** - NaOH |
| **OT** - Other | **ST** - Sodium Thiosulfate |
| **Bottle Type** | **AA** - Ascorbic Acid |
| **P** - Plastic | **Al** - $AlCl_3$ |
| **G** - Amber Glass | **Cu** -$CuSO_4$ |
| **VOA** - 40 ml Vial | |
| **Coli** - bacteria | |

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:18
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0460-01) Collected: 17-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11742 | 1.8 | 17-Jun-21 | 19-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11742 | 1.8 | 17-Jun-21 | 19-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11905 | 0.1 | 17-Jun-21 | 17-Jun-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11807 | 0.05 | 18-Jun-21 | 18-Jun-21 | **0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0460

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/17/21 | 11:33 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

RECEIVED
JUN 17 2021
By

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/17/21 | 11:37 |
| Received by | | Richard Mathner RCL | 6/17/21 | 1285 |
| Relinquished by | | Richard Mtz | 6/17/21 | 1425 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 17 2021 | | 1425 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(G) Grab
Comp

**Matrix**
(AQ) - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 29-Jun-21 17:22
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0479-01) Collected: 18-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11812 | 1.8 | 18-Jun-21 | 20-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11812 | 1.8 | 18-Jun-21 | 20-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF11905 | 0.1 | 18-Jun-21 | 18-Jun-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF11807 | 0.05 | 18-Jun-21 | 18-Jun-21 | **0.27 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0479

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: Mario Aguirre | P.O. #: |
| Irvine | CA 92618 | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/18/21 | 11:47 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

RECEIVED
JUN 18 2021
By

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/18/21 | 11:52 |
| Received by | | Richard Martinez PCL | 6/18/21 | 1240 |
| Relinquished by | | Richard Martinez | 6/18/21 | 1530 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 18 2021 | | 1530 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
(Grab)
Comp

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
(P) - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**Al** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:29
Subject: (MCC) Daily EFF

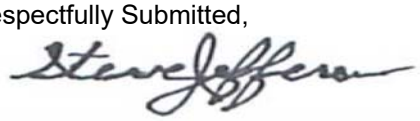
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0493-01) Collected: 19-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF11904 | 1.8 | 19-Jun-21 | 21-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF11904 | 1.8 | 19-Jun-21 | 21-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12022 | 0.1 | 19-Jun-21 | 19-Jun-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12021 | 0.05 | 20-Jun-21 | 20-Jun-21 | **0.20 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0493

| | | | |
|---|---|---|---|
| **Customer:** | IPC - Integrated Performance Consultants, Inc. | **Project :** | (MCC) Daily EFF |
| **Address:** | 9297 Research Drive | **Sampled by:** | Jesus Avalos |
| | Irvine CA 92618 | **Report Attention:** | Ric Vardel / Golan Kfir |
| | | **P.O. #:** | |
| | | **Phone #:** | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/19/21 | 10:50 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| 〃 | 〃 | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
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| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 6/19/21 | 10:55 |
| Received by: | Richard Kfir | 6/19/21 | 1145 |
| Relinquished by: | | | |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | Richard Kfir | 6/19/21 | 1250 |

**Sample Received Checklist**

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**Al** - $AlCl_3$
**Cu** - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:31
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0498-01) Collected: 20-Jun-21 By EM of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12020 | 1.8 | 20-Jun-21 | 22-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12020 | 1.8 | 20-Jun-21 | 22-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 20-Jun-21 | 29-Jun-21 | **7.0 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12129 | 0.05 | 21-Jun-21 | 21-Jun-21 | **0.18 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 2150498

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | ERIC MORRIS |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/20/21 | | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.0 |
| | | | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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| Geotracker EDD: | | | | | | | | | |
| Logcode: IPCI | | | | | | | | | |
| Global ID: WDR100000359 | | | | | | | | | |

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | E. MORRIS IPC | 6/20/21 | 956 |
| Received by | | Juan V. (PCL) | 6/20/21 | 10:10 |
| Relinquished by | | Juan V. (PCL) | 6/20/21 | 11:26 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | Jordan Corkery | 6/20/21 | 1126 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
**Grab**
**Comp**

**Matrix**
**AQ** - Water
**SO** -Soil / Sludge
**OT** - Other

**Bottle Type**
**P** - Plastic
**G** - Amber Glass
**VOA** - 40 ml Vial
**Coli** - bacteria

**Preservations**
**HC** - HCl
**HS** - $H_2SO_4$
**HN** - $HNO_3$
**HP** - $H_3PO_4$
**OH** - NaOH
**ST** - Sodium Thiosulfate
**AA** - Ascorbic Acid
**AI** - $AlCl_3$
**Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 29-Jun-21 17:34
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0524-01) Collected: 21-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12136 | 1.8 | 21-Jun-21 | 23-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12136 | 1.8 | 21-Jun-21 | 23-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 21-Jun-21 | 29-Jun-21 | **7.4 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12235 | 0.05 | 22-Jun-21 | 22-Jun-21 | **0.13 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0524

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Mario Aguirre |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: (Field) Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/21/21 | 11:12 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.43/23.0°C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 21 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/21/21 | 11:20 |
| Received by | | Armando Ojeda (IPC) | 6/21/21 | 13:20 |
| Relinquished by | | Armando Ojeda (IPC) | 6/21/21 | 14:50 |
| Received by | | | | |
| Relinquished by | | | | |
| Received at lab by | | JUN 21 2021 | | 1450 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| (Grab) | (AQ) - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | (Coli) - bacteria |

**Preservations**

- HC - HCl
- HS - $H_2SO_4$
- HN - $HNO_3$
- HP - $H_3PO_4$
- OH - NaOH
- (ST) - Sodium Thiosulfate
- AA - Ascorbic Acid
- Al - $AlCl_3$
- Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:36
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0560-01) Collected: 22-Jun-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12238 | 1.8 | 22-Jun-21 | 26-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12238 | 1.8 | 22-Jun-21 | 26-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 22-Jun-21 | 22-Jun-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12416 | 0.05 | 23-Jun-21 | 23-Jun-21 | **0.12 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0560

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: Golan Kfir | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/22/21 | 11:35 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.3/23 2-C |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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JUN 22 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: GK | Golan IPC | 6/22/21 | 13:20 |
| Received by: | Cindy MXMtec | 6/22/21 | 13:20 |
| Relinquished by: | Cindy M | 6/22/21 | 14:30 |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | JUN 22 2021 | | 1430 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | (Yes) No |
| Samples intact? | (Yes) No |
| Samples properly preserved? | (Yes) No |
| Samples in holding time? | (Yes) No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type | Preservations |
|---|---|---|---|
| (Grab) Comp | (AQ) - Water | (P) - Plastic | HC - HCl |
| | SO -Soil / Sludge | G - Amber Glass | HS - $H_2SO_4$ |
| | OT - Other | VOA - 40 ml Vial | HN - $HNO_3$ |
| | | (Coli) bacteria | HP - $H_3PO_4$ |
| | | | SH - NaOH |
| | | | (ST) - Sodium Thiosulfate |
| | | | AA - Ascorbic Acid |
| | | | AI - $AlCl_3$ |
| | | | Cu - $CuSO_4$ |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 18:01
Subject: (MCC) Weekly INF

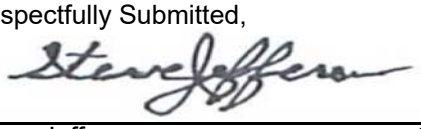
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21F0587-01) Collected: 22-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF12326 | 1 | 23-Jun-21 | 24-Jun-21 | **304 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF12418 | 2 | 24-Jun-21 | 29-Jun-21 | **614 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0587

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | CV |
| | Irvine CA - 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 06/22/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| | | | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | 7 1/2 5°C |

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JUN 23 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | CV | Carlos Alvarez (IPC) | 06/23/21 | 12:10 |
| Received by | | Cindy Martinez (PCL) | 6/23/21 | 12:10 |
| Relinquished by | | Cindy Martinez | 6/23/21 | 13:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 23 2021 | | 13:30 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | Al - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:39
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0589-01) Collected: 23-Jun-21 By CA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12324 | 1.8 | 23-Jun-21 | 26-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12324 | 1.8 | 23-Jun-21 | 26-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 23-Jun-21 | 23-Jun-21 | **7.6 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12416 | 0.05 | 24-Jun-21 | 24-Jun-21 | **0.13 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0589

| | | | |
|---|---|---|---|
| **Customer:** IPC - Integrated Performance Consultants, Inc. | | **Project:** (MCC) Daily EFF | |
| **Address:** 9297 Research Drive | | **Sampled by:** | **P.O. #:** |
| Irvine CA 92618 | | **Report Attention:** Ric Vardel / Golan Kfir | **Phone #:** 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/23/21 | 1155 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.6/23.6 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

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JUN 23 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (GAC) | 06/23/21 | 12:10 |
| Received by | | Cindy (PCL) | 6-23-21 | 12:10 |
| Relinquished by | | Cindy MAMM | 6-23-21 | 1338 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 23 2021 | | 13:30 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 29-Jun-21 17:56
Subject: (MCC) Weekly EFF

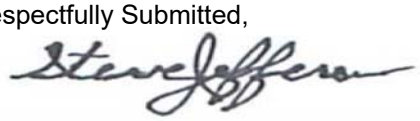
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0583-01) Collected: 23-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF12326 | 1 | 23-Jun-21 | 24-Jun-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AF12510 | 0.10 | 25-Jun-21 | 25-Jun-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AF12431 | 0.05 | 24-Jun-21 | 24-Jun-21 | **0.86 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AF12431 | 0.05 | 24-Jun-21 | 24-Jun-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AF12825 | 0.10 | 28-Jun-21 | 29-Jun-21 | **0.37 mg/l** | |
| **EFF (Sample I.D.# : 21F0583-02) Collected: 22-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AF12418 | 2 | 24-Jun-21 | 29-Jun-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0583

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | **(MCC)** Weekly **EFF** |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/23/21 | 1155 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | 7.7 / 25.4°C |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 06/22/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

RECEIVED
JUN 23 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Olguin (SPC) | 06/23/21 | 12:10 |
| Received by | | Cindy M (PCL) | 6-23-21 | 12:10 |
| Relinquished by | | Cindy M (PCL) | 6-23-21 | 13:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received at Lab by | | | JUN 23 2021 | 13:30 |

**Sample Received Checklist**

| | | |
|---|---|---|
| Temperature upon receipt: | 4 °C | |
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO - Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:42
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0614-01) Collected: 24-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12425 | 1.8 | 24-Jun-21 | 27-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12425 | 1.8 | 24-Jun-21 | 27-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 24-Jun-21 | 24-Jun-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12509 | 0.05 | 25-Jun-21 | 25-Jun-21 | **0.12 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0614

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: (MCC) Daily EFF | |
| Address: | 9297 Research Drive | Sampled by: Mario Aguirre | P.O. #: |
| | Irvine CA 92618 | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/24/21 | 11:10 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.75/25-8 C |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 24 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/24/21 | 11:13 |
| Received by | | Cindy MAYMUDES | 6/24/21 | 1130 |
| Relinquished by | | Cindy M | 6/24/21 | 2:30 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 24 2021 | | 1230 |

**Sample Received Checklist**

Temperature upon receipt: 4° C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab | HC - HCl |
| Comp | HS - $H_2SO_4$ |
| **Matrix** | HN - $HNO_3$ |
| AQ - Water | HP - $H_3PO_4$ |
| SO - Soil / Sludge | OH - NaOH |
| OT - Other | ST - Sodium Thiosulfate |
| **Bottle Type** | AA - Ascorbic Acid |
| P - Plastic | Al - $AlCl_3$ |
| G - Amber Glass | Cu - $CuSO_4$ |
| VOA - 40 ml Vial | |
| Coli - bacteria | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:44
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0661-01) Collected: 25-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12516 | 1.8 | 25-Jun-21 | 28-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12516 | 1.8 | 25-Jun-21 | 28-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 25-Jun-21 | 25-Jun-21 | **7.7 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12509 | 0.05 | 25-Jun-21 | 25-Jun-21 | **0.16 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0661

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: (MCC) Daily EFF | |
| Address: | 9297 Research Drive | Sampled by: Mario Aguirre | P.O. #: |
| | Irvine CA 92618 | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/25/21 | 11:02 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.7 \| 7.9 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 25 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Mario Aguirre (IPC) | 6/25/21 | 11:04 |
| Received by | | Cindy M | 6/25/21 | 12:55 |
| Relinquished by | | Cindy M | 6/25/21 | 1435 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | | JUN 25 2021 | 1435 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**

HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 29-Jun-21 17:46
Subject: (MCC) Daily EFF

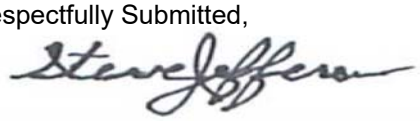
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0681-01) Collected: 26-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12607 | 1.8 | 26-Jun-21 | 28-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12607 | 1.8 | 26-Jun-21 | 28-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 27-Jun-21 | 27-Jun-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12826 | 0.05 | 28-Jun-21 | 28-Jun-21 | **0.09 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0681

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: Jesus Avalos | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/26/21 | 10:50 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by: Jesus Avalos | Jesus Avalos (IPC) | 6/26/21 | 10:55 |
| Received by: | Richard Martinez PCL | 6/26/21 | 1220 |
| Relinquished by: | | | |
| Received by: | | | |
| Relinquished by: | | | |
| Received in lab by: | Richard Martinez | 6/26/21 | 1330 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

**Compliance Monitor**

**Initial Flow** _____
**Final Flow** _____

| Sample Type | Preservations |
|---|---|
| Grab<br>Comp | HC - HCl<br>HS - $H_2SO_4$ |
| Matrix<br>AQ - Water<br>SO - Soil / Sludge<br>OT - Other | HN - $HNO_3$<br>HP - $H_3PO_4$<br>OH - NaOH<br>ST - Sodium Thiosulfate |
| Bottle Type<br>P - Plastic<br>G - Amber Glass<br>VOA - 40 ml Vial<br>Coli - bacteria | AA - Ascorbic Acid<br>Al - $AlCl_3$<br>Cu - $CuSO_4$ |

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 29-Jun-21 17:49
Subject: (MCC) Daily EFF

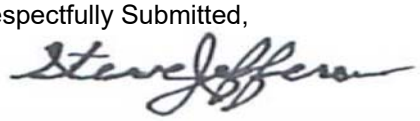
Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0686-01) Collected: 27-Jun-21 By jv of PCL** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12727 | 1.8 | 27-Jun-21 | 29-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12727 | 1.8 | 27-Jun-21 | 29-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 27-Jun-21 | 27-Jun-21 | **7.2 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12826 | 0.05 | 28-Jun-21 | 28-Jun-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 6/29/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0686

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: ERIC MORRIS | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/27/21 | 938 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.2 |
| | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |
| | | | | | | | | | |
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| Geotracker EDD: Logcode: IPCI Global ID: WDR100000359 | | | | | | | | | |

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | E. Morris | 6/27/21 | 9:39 |
| Received by | Juan V. (PCL) | 6/27/21 | 9:39 |
| Relinquished by | Juan V. (PCL) | 6/27 | 11:47 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | Juan V. (PCL) | 6/29/21 | 11:47 |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Sample Received Checklist**

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

*Rev 2 Effective 5/1/17*

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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 13-Jul-21 17:56
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0701-01) Collected: 28-Jun-21 By CA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12837 | 1.8 | 28-Jun-21 | 30-Jun-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12837 | 1.8 | 28-Jun-21 | 30-Jun-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AF12931 | 0.1 | 28-Jun-21 | 28-Jun-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AF12826 | 0.05 | 28-Jun-21 | 28-Jun-21 | **0.05 mg/l** | |
| **EFF (Sample I.D.# : 21F0731-01) Collected: 29-Jun-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF12930 | 1.8 | 29-Jun-21 | 02-Jul-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF12930 | 1.8 | 29-Jun-21 | 02-Jul-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AG10406 | 0.1 | 29-Jun-21 | 29-Jun-21 | **7.3 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AG10126 | 0.05 | 30-Jun-21 | 30-Jun-21 | **0.14 mg/l** | |
| **EFF (Sample I.D.# : 21F0768-01) Collected: 30-Jun-21 By CA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AF13033 | 1.8 | 30-Jun-21 | 04-Jul-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AF13033 | 1.8 | 30-Jun-21 | 04-Jul-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AG10406 | 0.1 | 30-Jun-21 | 30-Jun-21 | **7.1 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AG10126 | 0.05 | 01-Jul-21 | 01-Jul-21 | **0.11 mg/l** | |
| **EFF (Sample I.D.# : 21G0015-01) Collected: 01-Jul-21 By GK of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AG10131 | 1.8 | 01-Jul-21 | 04-Jul-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AG10131 | 1.8 | 01-Jul-21 | 04-Jul-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AG10406 | 0.1 | 01-Jul-21 | 01-Jul-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AG10210 | 0.05 | 02-Jul-21 | 02-Jul-21 | **<0.05 mg/l** | |

Respectfully Submitted,

Steve Jefferson 7/13/2021
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 13-Jul-21 17:56
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21G0043-01) Collected: 02-Jul-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AG10204 | 1.8 | 02-Jul-21 | 04-Jul-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AG10204 | 1.8 | 02-Jul-21 | 04-Jul-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AG10406 | 0.1 | 02-Jul-21 | 02-Jul-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AG10210 | 0.05 | 02-Jul-21 | 02-Jul-21 | **<0.05 mg/l** | |
| **EFF (Sample I.D.# : 21G0064-01) Collected: 03-Jul-21 By MA of IPC** | | | | | | | |
| ***Microbiological*** | | | | | | | |
| **Fecal Coliforms** | SM 9221E | AG10306 | 1.8 | 03-Jul-21 | 06-Jul-21 | **<1.8 MPN/100 ml** | |
| **Total Coliforms** | SM 9221B | AG10306 | 1.8 | 03-Jul-21 | 06-Jul-21 | **<1.8 MPN/100 ml** | |
| ***Inorganic Constituents*** | | | | | | | |
| **pH** | SM 4500H-B | AG10406 | 0.1 | 03-Jul-21 | 03-Jul-21 | **7.5 pH Units** | |
| **Residual Chlorine** | SM 4500Cl-G | AG10405 | 0.05 | 04-Jul-21 | 04-Jul-21 | **<0.05 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Steve Jefferson 7/13/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0701

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project: (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/28/21 | 1100 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.3 |
| | 1 | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 28 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 06/28/21 | 1115 |
| Received by | | Juan V. (PCL) | 6/28 | 13:44 |
| Relinquished by | | Juan V. (PCL) | 6/28 | 14:48 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 28 2021 | | 1448 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0731

| | | | |
|---|---|---|---|
| Customer: IPC - Integrated Performance Consultants, Inc. | | Project : (MCC) Daily EFF | |
| Address: 9297 Research Drive | | Sampled by: Mario Aguirre | P.O. #: |
| Irvine CA 92618 | | Report Attention: Ric Vardel / Golan Kfir | Phone #: 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field / Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 6/29/21 | 11:12 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.3 |
| " | " | " | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 29 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| Signature | Print Name (Company) | Date | Time |
|---|---|---|---|
| Relinquished by | Mario Aguirre (IPC) | 6/29/21 | 11:18 |
| Received by | Juan V. (PCL) | 6/29 | 12:24 |
| Relinquished by | Juan V. (PCL) | 6/29 | 13:45 |
| Received by | | | |
| Relinquished by | | | |
| Received in lab by | JUNE MAY 29 2021 | | 13:45 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | |
|---|---|
| # of bottles agrees with COC? | Yes No |
| Samples intact? | Yes No |
| Samples properly preserved? | Yes No |
| Samples in holding time? | Yes No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**

| | |
|---|---|
| HC - HCl | |
| HS - $H_2SO_4$ | |
| HN - $HNO_3$ | |
| HP - $H_3PO_4$ | |
| OH - NaOH | |
| ST - Sodium Thiosulfate | |
| AA - Ascorbic Acid | |
| AI - $AlCl_3$ | |
| Cu - $CuSO_4$ | |

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0768

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Daily EFF |
| Address: | 9297 Research Drive | Sampled by: | Kyle Vardel |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/30/21 | 1152 | 1 | pH, T.Res.Chlorine | Grab | AQ | 500ml Plastic | 4°C | 7.1 |
| | 1 | 1 | 1 | Total Coliform, Fecal Coliform | Grab | AQ | Coli Bottle | 4°C, ST | |

RECEIVED
JUN 30 2021
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Olvera (IPC) | 06/30/21 | 12 |
| Received by | | Juan V. (PCL) | 6/30 | 12:18 |
| Relinquished by | | Juan V. (PCL) | 6/30 | 14:05 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 30 2021 | | 1405 |

**Sample Received Checklist**

Temperature upon receipt: 4°C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

| Sample Type | Matrix | Bottle Type |
|---|---|---|
| Grab | AQ - Water | P - Plastic |
| Comp | SO - Soil / Sludge | G - Amber Glass |
| | OT - Other | VOA - 40 ml Vial |
| | | Coli - bacteria |

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

*Rev 2 Effective 5/1/17*

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com



Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 13-Jul-21 18:05
Subject: (MCC) Weekly INF

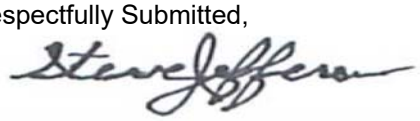
Project/P.O.#: (MCC) Weekly INF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **INF (Sample I.D.# : 21F0771-01) Collected: 29-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AF13034 | 1 | 30-Jun-21 | 01-Jul-21 | **262 mg/l** | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AG10130 | 2 | 01-Jul-21 | 06-Jul-21 | **539 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 7/13/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0771

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project: | (MCC) Weekly INF |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| INF | 06/29/21 | 0000 | 1 | TSS | Comp | AQ | 1-Liter Plastic | 4°C | |
| | | | 1 | BOD | Comp | AQ | 1-Liter Plastic | 4°C | |

RECEIVED
JUN 30 2021
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 06/30/21 | 12:13 |
| Received by | | Juan V. (PCL) | 6/30 | 12:13 |
| Relinquished by | | Juan V. (PCL) | 6/30 | 14:05 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 30 2021 | | 1405 |

**Sample Received Checklist**

Temperature upon receipt: 4 °C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

**Sample Type**
Grab
Comp

**Matrix**
AQ - Water
SO -Soil / Sludge
OT - Other

**Bottle Type**
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

**Preservations**
HC - HCl
HS - $H_2SO_4$
HN - $HNO_3$
HP - $H_3PO_4$
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618



Attention: Ric Vardel
Report Date: 13-Jul-21 18:01
Subject: (MCC) Weekly EFF

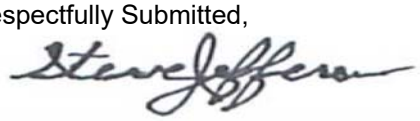
Project/P.O.#: (MCC) Weekly EFF

| Parameter | Method | QC Batch | RL | Prepared | Analyzed | Result | Notes |
|---|---|---|---|---|---|---|---|
| **EFF (Sample I.D.# : 21F0773-01) Collected: 30-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Physical Properties*** | | | | | | | |
| **Total Suspended Solids** | SM2540D | AG10136 | 1 | 01-Jul-21 | 02-Jul-21 | **<1 mg/l** | |
| ***Inorganic Constituents*** | | | | | | | |
| **Ammonia as N** | EPA 350.1 | AG11231 | 0.10 | 12-Jul-21 | 13-Jul-21 | **<0.10 mg/l** | |
| **Nitrate as N** | EPA 353.2 | AG10132 | 0.05 | 01-Jul-21 | 01-Jul-21 | **0.57 mg/l** | |
| **Nitrite as N** | EPA 353.2 | AG10132 | 0.05 | 01-Jul-21 | 01-Jul-21 | **<0.05 mg/l** | |
| **Total Kjeldahl Nitrogen** | EPA 351.2 | AG10632 | 0.10 | 06-Jul-21 | 07-Jul-21 | **0.48 mg/l** | |
| **EFF (Sample I.D.# : 21F0773-02) Collected: 29-Jun-21 By Carlos A. of IPC** | | | | | | | |
| ***Aggregate Organic Constituents*** | | | | | | | |
| **Biochemical Oxygen Demand** | SM 5210B | AG10130 | 2 | 01-Jul-21 | 06-Jul-21 | **3 mg/l** | |

### Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,



Steve Jefferson 7/13/2021
Laboratory Director

**Pat-Chem Laboratories**
**1824 1st Street**
**San Fernando, CA 91340**

# CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

**Environmental Sample**

**Sample I.D.#:** 21F0773

| | | | |
|---|---|---|---|
| Customer: | IPC - Integrated Performance Consultants, Inc. | Project : | (MCC) Weekly EFF |
| Address: | 9297 Research Drive | Sampled by: | |
| | Irvine CA 92618 | Report Attention: | Ric Vardel / Golan Kfir |
| | | P.O. #: | |
| | | Phone #: | 949-382-9067 |

| Sample Description | Date Sampled | Time Sampled | # of bottles | Required Tests | Sample Type | Matrix | Bottle Type | Preserve | Field Data (pH / Temperature) pH: Field Lab |
|---|---|---|---|---|---|---|---|---|---|
| EFF | 06/30/21 | 1150 | 1 | TSS | Grab | AQ | 1-Liter-Plastic | 4°C | |
| | | | 1 | Ammonia, TKN | Grab | AQ | 500ml Plastic | 4°C | |
| | | | 1 | Nitrate, Nitrite | Grab | AQ | 250ml Plastic | 4°C | |
| | 06/29/21 | 0000 | 1 | BOD | Comp | AQ | 1-Liter-Plastic | 4°C | |

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

RECEIVED
JUN 30 2021
By

| | Signature | Print Name (Company) | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Carlos Alvarez (IPC) | 06/30/21 | 12- |
| Received by | | Juan V. (PCL) | 6/30 | 12:14 |
| Relinquished by | | Juan V. (PCL) | 6/30 | 14:05 |
| Received by | | | | |
| Relinquished by | | | | |
| Received in lab by | | JUN 30 2021 | | 1405 |

**Sample Received Checklist**

Temperature upon receipt: 4° C

| | | |
|---|---|---|
| # of bottles agrees with COC? | Yes | No |
| Samples intact? | Yes | No |
| Samples properly preserved? | Yes | No |
| Samples in holding time? | Yes | No |

**Compliance Monitor**

**Initial Flow** _____

**Final Flow** _____

Sample Type: (Grab) Comp

Matrix: (AQ) - Water; SO -Soil / Sludge; OT - Other

Bottle Type: (P) - Plastic; G - Amber Glass; VOA - 40 ml Vial; Coli - bacteria

Preservations: HC - HCl; HS - $H_2SO_4$; HN - $HNO_3$; HP - $H_3PO_4$; OH - NaOH; ST - Sodium Thiosulfate; AA - Ascorbic Acid; Al - $AlCl_3$; Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17



# Malibu Civic Center Wastewater Treatment Facility

## Second Quarter 2021 Long-Term Groundwater and Surface Water Monitoring Report

*prepared by*

**Rincon Consultants, Inc.**

*prepared for*

**City of Malibu**
23825 Stuart Ranch Road
Malibu, California 90265

**July 30, 2021**

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
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180 North Ashwood Avenue
Ventura, California 93003

805 644 4455 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

July 30, 2021
Project No: 20-09665

Yolanda Bundy
Environmental Sustainability Department Director
Building Official
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90265

**Subject: Second Quarter 2021 Long-Term Groundwater and Surface Water Monitoring Report, Malibu Civic Center Wastewater Treatment Facility – City of Malibu, California**

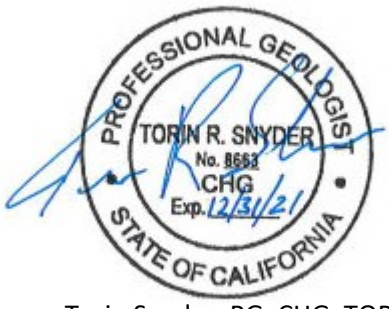
Dear Ms. Bundy:

Rincon Consultants, Inc. has prepared the Second Quarter 2021 Long-Term Groundwater and Surface Water Monitoring Report for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in Malibu, California. The CCWTF began discharging treated wastewater in the third quarter of 2018. Therefore, Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring (Task II) was triggered and quarterly groundwater monitoring was initiated.

The objective of the work program is to implement and manage a basin-wide groundwater and surface water monitoring and reporting program. The monitoring program has been designed to identify potential impacts due to land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water quality of the local groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

Please contact us with any questions you may have regarding the results of the Second Quarter 2021 Long-Term Groundwater and Surface Water Monitoring Report.

Sincerely,
**Rincon Consultants, Inc.**




Kiernan Brtalik, CPSWQ, QSP/D
Environmental Scientist

Torin Snyder, PG, CHG, TOR, QSD/P
Principal

# Certification

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment."

Executed on the 27 day of July 2021 at Malibu, CA

Yolanda Bundy
Signature

Environmental Sustainability Director
Title

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## Appendices

Appendix A Groundwater and Surface Water Field Sheets
Appendix B Analytical Laboratory Reports

# 1 Introduction

This report presents the results of groundwater and surface water monitoring activities conducted during the second quarter of 2021 for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in Malibu, California (Figure 1). The CCWTF began discharging treated wastewater in the third quarter of 2018, triggering Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring (Task II). The objective of the work program is to implement and manage a basin-wide groundwater and surface water monitoring and reporting program. The monitoring program has been designed to identify potential impacts as a result of land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water quality of the local groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

This report was prepared by Rincon Consultants, Inc. (Rincon) and presents the geologic and hydrogeologic setting, groundwater elevations and gradient, surface water and groundwater sampling methodologies, and water quality data results.

# 2 Background

On-site wastewater disposal systems (OWDS) have allegedly contributed to the non-point source pollution of Malibu Creek and Lagoon located in the Civic Center Area of the City of Malibu (Figure 2). The City of Malibu has designed and constructed a new wastewater treatment facility to comply with regulatory actions taken by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the State Water Resources Control Board (SWRCB) to prohibit discharges from OWDS in the Civic Center area.

To establish baseline groundwater and surface water quality conditions prior to operation and discharge of treated wastewater, the LARWQCB required basin-wide, baseline groundwater and surface water monitoring. The water quality monitoring program was driven by several factors:

- Timelines established through regulatory action
- Proposed programs to fulfill anticipated future regulatory requirements associated with the development of the CCWTF
- The distribution of Recycled Water in the Prohibition area in conformance with California Code of Regulations, Title 22
- Protection of the Malibu Valley Groundwater Basin, Malibu Creek, Malibu Lagoon, and the near shore environment of Santa Monica Bay

Following activation of the CCWTF operations, baseline monitoring activities (Task I) were completed and long-term monitoring activities (Task II) were triggered. The objective of long-term monitoring is to identify impacts that land disposal of recycled water, via injection and landscape irrigation or percolation, may have on the water quality of the receiving groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

The basin-wide long-term monitoring program consists of four of the original five water quality monitoring tasks that occur in the Civic Center area of the City of Malibu. All five monitoring tasks were designed to provide a comprehensive basin-wide groundwater and surface water monitoring program. Below is a general description of each task.

## Task I – Baseline Groundwater and Surface Water Quality Monitoring of the Civic Center Area *(Completed)*

The baseline groundwater and surface water quality monitoring task involved monitoring groundwater in nine shallow and deep groundwater wells and monitoring surface water quality at ten locations. The objective of this task was to develop baseline, ambient shallow and deep groundwater, and surface water conditions prior to the implementation of the CCWTF, as required by the Monitoring and Reporting Program (MRP) No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

## Task II – Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring of the Civic Center Area

The long-term groundwater and surface water quality monitoring task involves monitoring groundwater in nine shallow and deep groundwater wells and surface water quality at 10 locations on a quarterly basis. Depending on quarterly flows of recycled water from the CCWTF to the percolation ponds, the number of samples collected for a given quarter may be reduced from nine to seven groundwater monitoring wells. This reduced number of groundwater monitoring wells is allowed when no more than 10 percent greater than the permitted flows are discharged to the percolation ponds.

The objective of long-term monitoring is to identify impacts, if any, that land disposal of recycled water, via injection and landscape irrigation or percolation, have on the water quality of the receiving groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon and to comply with the project-specific Waste Discharge Requirement (WDR). The mix of shallow and deeper monitoring wells were chosen to provide adequate spatial and vertical coverage of the basin near the CCWTF injection to monitor for potential adverse impacts. This sampling is required by the MRP No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

## Task III – Salt and Nutrient Management Plan Monitoring Program

The Salt and Nutrient Management Plan (SNMP) monitoring program builds upon the baseline and long-term groundwater and surface water monitoring programs described above (Tasks I and II). Task III involves performing semi-annual groundwater monitoring at 16 groundwater monitoring wells (mix of shallow and deep) located in the Civic Center area of the City of Malibu and in a small area in unincorporated Los Angeles County. The objective of the SNMP is to monitor potential impacts that recycled water, introduced through irrigation and injection, may have on the Malibu Groundwater Basin. The SNMP also provides data to assess the various phases of the CCWTF implementation during the time that the collection system and treatment plant connections increase, and as OWDS-related discharges cease (RMC Water 2015a).

## Task IV – Memorandum of Understanding Compliance Monitoring

Compliance with the Memorandum of Understanding (MOU) the City of Malibu has with the LARWQCB corresponds with baseline and long-term groundwater and surface water monitoring programs described in Tasks I through III above. Task IV involves performing semi-annual monitoring at fourteen groundwater wells located in the City of Malibu's Civic Center area. The objective of the MOU is to monitor for potential impacts to the Shallow Alluvium because of CCTWF implementation (LARWQCB 2014).

### Task V – Civic Center Groundwater Elevation Monitoring Program

The groundwater elevation monitoring program assesses the groundwater elevations in the Malibu Groundwater Basin and in Winter Canyon. The objective of this task is to provide an understanding of the groundwater elevation conditions in the Civic Center Area, including elevation trends related to precipitation, tidal, and lagoon influences (LARWQCB 2015).

# 3 Geologic and Hydrogeologic Setting

## 3.1 Hydrology

The project is in the Los Angeles hydrologic region, as defined by the LARWQCB. The Los Angeles hydrologic region encompasses all coastal drainages flowing to the Pacific Ocean between Rincon Point and the eastern Los Angeles County line. The study area covers the Malibu Creek and Winter Canyon Creek watersheds. Most of the study area addressed in this report is located within the 109-square-mile Malibu Creek watershed, which is the second largest watershed draining to the Santa Monica Bay. The Malibu Creek watershed contains mostly undeveloped mountain areas, residential properties, and natural streams (LARWQCB 2011). Malibu Lagoon, a 13-acre brackish estuary, is located at the terminus of the Malibu Creek watershed and is one of only two remaining coastal marshes in Los Angeles County.

## 3.2 Geology

The study area is located within the Santa Monica Mountains in the northwestern corner of the Los Angeles basin. The study area lies at the juncture of the Peninsular Ranges geomorphic province, consisting of a northwest-oriented structural grain, and the Transverse Ranges geomorphic province, which features a predominantly east-west-oriented structural grain.

The 45-mile-long Santa Monica Mountains range is part of the southernmost portion of the western Transverse Ranges province. It forms an east-west range of low mountains along the southern California Coast from the Oxnard Plain to Los Angeles. The Santa Monica Mountain range is characterized by long, south-draining canyons on its south flank and short, north-draining canyons on its north flank. The Malibu Canyon and Winter Canyon are two canyons in the study area that drain to the south.

## 3.3 Hydrogeology

The Malibu Valley Groundwater Basin (Department of Water Resources [DWR] groundwater basin no. 4-22) is a 613-acre alluvial basin. The groundwater basin is bounded by the Pacific Ocean to the south and the Santa Monica Mountains to the north, east, and west. The basin is composed of non-water-bearing Tertiary age rocks.

Water bearing geologic formations in the Malibu Valley Groundwater Basin include Holocene alluvium, consisting of clays, silts, sands, and gravels overlying impermeable bedrock. The unconsolidated alluvium in the Civic Center area by Malibu Creek and other small drainages is estimated to range in thickness from a thin layer near the valley walls to about 175 feet in the central part of the main body of the alluvium. The alluvium can be subdivided into three categories or zones: 1) a shallow zone of permeable alluvial sediments, 2) underlain by a sequence of fine-

grained estuarine deposits, and 3) an underlying coarse-grained stratum commonly referred to as the "Civic Center Gravels" (GeoSoils 1989, Leighton 1994, ECI 2000, Ambrose and Orme 2000, Fugro West, Inc. 2005, Geosyntec Consultants 2007). Depth to groundwater in the alluvium is typically 5 to 20 feet below grade and is deeper in the upland canyon areas.

# 4 Completed Activities During Second Quarter 2021

The following activities were completed during the second quarter of 2021:

- Rincon measured depth to water in groundwater monitoring wells on April 30, May 17, and June 9, 2021 (Task V)
- Rincon collected and analyzed groundwater samples for WDR/MRP (Task II), SNMP (Task III), and MOU (Task IV) compliance on May 18 and 19, 2021
- Rincon collected and analyzed surface water samples for WDR/MRP (Task II) compliance on May 18, 2021

# 5 Groundwater Elevations and Gradients

During each month of the quarter, Rincon mobilized to 43 groundwater monitoring wells to measure the depth to water using an electronic water level indicator (summarized in the table below; also see Table 1 and Appendix A).

**Groundwater Monitoring Locations**

| | | | | |
|---|---|---|---|---|
| **Shallow Zone** (33 wells)[1] | | | | |
| C-1 | C-2 | CCPE | CCPNE | CCPSW |
| CCW-4 | GH6-M1 | GH8-M3 | M6-1 | M6-2 |
| M7-1 | M7-2 | MBCMW-5[2] | MBCMW-7 | MBCMW-8 |
| MBCMW-9 | MBCMW-10 | MCWP-MW04S | MCWP-MW07S | MCWP-MW08 |
| MCWP-MW10 | P-4 | P-9 | SMBRP-2 | SMBRP-6 |
| SMBRP-7B | SMBRP-8 (EC1-RC-MW01) | SMBRP-9 | SMBRP-10C[3] | SMBRP-12 |
| SMBRP-13 | SMBRP-15B[4] | SMBRP-16 | | |
| **Deep Zone** (8 wells) | | | | |
| MCWP-MW01 | MCWP-MW02 | MCWP-MW03 | MCWP-MW04D | MCWP-MW05 |
| MCWP-MW06 | MCWP-MW07D | MCWP-MW09 | | |
| **Winter Canyon** (2 wells) | | | | |
| LAMW-5S | SMBRP-11 | | | |

[1] Two wells have been removed from the original monitoring network; GH9-M4 has been buried as of the September 2018 monitoring event and MBCMW-6 was removed following grading activities in 2019

[2] MCBMW-5 was dry during each month of the second quarter of 2021 monitoring period

[3] SMBRP-10C was removed during the development of a sidewalk in March 2021

[4] SMBRP-15B has been dry as of the first monitoring event in August 2015

## 5.1 Shallow Zone

Groundwater elevation measurements from each shallow monitoring well are included in Table 1 and shown on Figures 3, 4, and 5. The following table summarizes the shallow groundwater elevation ranges observed during the second quarter of 2021, changes in elevation compared to the first quarter of 2021, and historical groundwater elevation range.

**Summary of Groundwater Elevations – Shallow Zone**

| 2nd Quarter 2021 | | | 1st Quarter 2021 | | | Historical | |
|---|---|---|---|---|---|---|---|
| Minimum | Maximum | Average | Minimum | Maximum | Average | Minimum | Maximum |
| 2.58 (MCWP-MW08) | 20.67 (SMBRP-8) | 8.01 | 2.71 (MCWP-MW10) | 21.81 (SMBRP-8) | 7.35 | 1.09 (CCPE, 05/2020) | 25.38 (SMBRP-8, 05/2017) |

| Changes from April to June 2021 | | | | | | |
|---|---|---|---|---|---|---|
| Decrease | | | Increase | | | Average Change |
| # Observed | Maximum | Average | # Observed | Maximum | Average | |
| 12 | -1.01 (SMBRP-6) | -0.43 | 12 | 0.98 (P-4) | 0.47 | 0.02 |

Note: Elevations measured in feet above mean sea level

The shallow groundwater gradient was calculated, and flow direction estimated based on the groundwater elevation data in SMBRP-2, SMBRP-9, and SMBRP-12 and summarized in the table below (Figures 3, 4, and 5).

**Summary of Groundwater Gradients**

| Month | Gradient (feet per foot) | Flow Direction |
|---|---|---|
| April | 0.0037 | South-southeast |
| May | 0.0037 | South-southeast |
| June | 0.0035 | South-southeast |

## 5.2 Deep Zone

Groundwater elevation measurements from each deep monitoring well are included in Table 1. The following table summarizes the deep groundwater elevation ranges observed in the second quarter of 2021, changes in elevation compared to the first quarter of 2021, and historical groundwater elevation ranges:

**Summary of Groundwater Elevations – Deep Zone**

| 2nd Quarter 2021 | | | 1st Quarter 2021 | | | Historical | |
|---|---|---|---|---|---|---|---|
| Minimum | Maximum | Average | Minimum | Maximum | Average | Minimum | Maximum |
| 4.77 (MCWP-MW07D) | 10.39 (MCWP-MW09) | 6.87 | 4.40 (MCWP-MW07D) | 10.24 (MCWP-MW09) | 6.35 | 4.09 (MCWP-MW07D, 12/2017) | 11.55 (MCWP-MW09, 12/2015) |

| Changes from April to June 2021 | | | | | | |
|---|---|---|---|---|---|---|
| Decrease | | | Increase | | | Average Change |
| # Observed | Maximum | Average | # Observed | Maximum | Average | |
| 0 | -- | -- | 8 | 0.85 | 0.43 | 0.43 |

Note: Elevations measured in feet above mean sea level

## 5.3 Winter Canyon

Groundwater elevation measurements from each Winter Canyon monitoring well are included in Table 1. The following table summarizes the Winter Canyon groundwater elevation ranges observed in the second quarter of 2021, changes in elevation compared to the first quarter of 2021, and historical groundwater elevation ranges.

**Summary of Groundwater Elevations – Winter Canyon**

| 2nd Quarter 2021 | | | 1st Quarter 2021 | | | Historical | |
|---|---|---|---|---|---|---|---|
| Minimum | Maximum | Average | Minimum | Maximum | Average | Minimum | Maximum |
| 9.94 (SMBRP-11) | 46.45 (LAMW-5S) | 28.06 | 9.38 (SMBRP-11) | 47.59 (LAMW-5S) | 28.39 | 9.31 (SMBRP-11, 05/2018) | 58.65 (LAMW-5S, 03/2019) |

| Changes from April to June 2021 | | | | | | |
|---|---|---|---|---|---|---|
| Decrease | | | Increase | | | Average Change |
| # Observed | Maximum | Average | # Observed | Maximum | Average | |
| 2 | -0.70 (LAMW-5S) | -0.35 | 0 | – | – | -0.35 |

Note: Elevations measured in feet above mean sea level

# 6 Water Quality Sampling Analysis

This section presents laboratory analytical results for samples collected during the Second Quarter 2021 monitoring event. Included below are the constituents required by the WDR for surface water monitoring, and which are also analyzed in groundwater samples. This includes total and fecal coliform, nitrate as nitrogen, nitrite as nitrogen, organic nitrogen, ammonia, total Kjeldahl nitrogen (TKN), and total phosphorous. Ammonia ($NH_3^+$) is the primary form of nitrogen in OWDS effluent, and it is converted to nitrate during the leaching process through the vadose zone. A schematic of this process is provided as Figure 6.

Surface water and groundwater monitoring locations and corresponding laboratory analyses are shown in the Groundwater and Surface Water Analytical Matrix (Table 2). The laboratory analytical

results for the Second Quarter 2021 monitoring event are provided in Table 3 and Table 4. Analytical laboratory reports are included as Appendix B of this report.

## 6.1 Surface Water

A total of 10 surface water samples were collected on May 18, 2021. Four ocean water samples were collected from the Near Shore sampling locations (N-001 through N-004) and six surface water samples were collected from the Malibu Lagoon and Creek (L-001 through L-006) in accordance with the WDR/MRP (Task II) monitoring requirements, as summarized in the table below.

**Surface Water Sampling Locations**

| Near Shore Ocean | Malibu Lagoon and Creek |
|---|---|
| N-001 | L-001 |
| N-002 | L-002 |
| N-003 | L-003 |
| N-004 | L-004 |
| | L-005 |
| | L-006 |

### Sampling Methodology

The Near Shore ocean water samples were collected from each location at a depth of approximately 3-6 inches (ankle deep). Surface water samples from Malibu Lagoon and Creek monitoring locations were collected from each location at a depth of approximately 12 inches below the surface of the water.

All surface water samples were collected up-current of sampling personnel to minimize potential contamination of surface water samples with bacteria originating from field personnel. Surface water samples were collected directly into lab-supplied containers when possible, or into a field sampling container and then transferred into preserved and non-preserved containers supplied by Enthalpy Analytical (Enthalpy), a California-accredited analytical laboratory located in Orange, California. The containers were capped, labeled, placed in Ziploc bags, and stored on ice in a cooler and delivered via courier to Enthalpy under chain-of-custody documentation.

### Laboratory Analyses

#### *Near Shore*

The following table summarizes constituent detections in surface water samples collected from the four Near Shore sampling locations. This table presents the number of samples detected above the laboratory detection limit (RDL), the minimum and maximum concentrations detected above the RDL, and average concentration for each detected constituent.[1]

[1] Averages throughout this report are calculated using the upper detection limit value for results that exceeded the upper detection limit and half of the RDL for results that were not detected.

**Summary of Detected Concentrations in Surface Water – Near Shore**

| Constituent | Number Detected | Minimum Detected | Maximum Detected | Average | Units |
|---|---|---|---|---|---|
| Total Coliform | 4 | 350 (N-001) | 2,400 (N-004) | 1,128 | MPN/100 mL |
| Fecal Coliform | 1 | – | 1.0 (N-004) | – | MPN/100 mL |
| Nitrate as Nitrogen | 0 | – | – | – | mg/L |
| Nitrite as Nitrogen | 0 | – | – | – | mg/L |
| Organic Nitrogen | 3 | 0.020 (N-003) | 0.13 (N-002) | 0.065 | mg/L |
| Ammonia Nitrogen | 2 | 0.018 (N-001) | 0.034 (N-003) | 0.038 | mg/L |
| Total Kjeldahl Nitrogen | 3 | 0.054 (N-003) | 0.13 (N-002) | 0.11 | mg/L |
| Total Phosphorous | 4 | 0.47 (N-001) | 0.82 (N-003) | 0.66 | mg/L |

MPN/100 mL – Most Probable Number per 100 milliliters
mg/L – milligrams per liter

### *Malibu Lagoon and Creek*

The following table summarizes constituent detections in surface water samples collected from the six Malibu Lagoon and Creek monitoring locations.

**Summary of Detected Concentrations in Surface Water – Malibu Lagoon and Creek**

| Constituent | Number Detected | Minimum Detected | Maximum Detected | Average | Units |
|---|---|---|---|---|---|
| Total Coliform | 6 | 870 (L-004) | 4,800 (L-002) | 2,328 | MPN/100 mL |
| Fecal Coliform | 6 | 5.2 (L-004) | 280 (L-001) | 75 | MPN/100 mL |
| Nitrate as Nitrogen | 2 | 0.25 (L-001) | 0.40 (L-002) | 0.22 | mg/L |
| Nitrite as Nitrogen | 0 | – | – | – | mg/L |
| Organic Nitrogen | 6 | 0.26 (L-001) | 0.96 (L-006) | 0.59 | mg/L |
| Ammonia Nitrogen | 4 | 0.024 (L-006) | 0.040 (L-002) | 0.039 | mg/L |
| Total Kjeldahl Nitrogen | 6 | 0.30 (L-001) | 0.98 (L-006) | 0.61 | mg/L |
| Total Phosphorous | 6 | 0.057 (L-004) | 0.34 (L-006) | 0.24 | mg/L |

MPN/100 mL – Most Probable Number per 100 milliliters
mg/L – milligrams per liter

## 6.2 Groundwater

A total of seven groundwater monitoring wells were sampled during the second quarter of 2021 in accordance with the WDR/MRP (Task II), SNMP (Task III), and MOU (Task IV) monitoring requirements.

**Groundwater Sampling Locations**

| Well ID | Zone | Task | Sampling Frequency |
|---|---|---|---|
| SMBRP-9 | Shallow | II, III, IV | Quarterly |
| SMBRP-12 | Shallow | II, III, IV | Quarterly |
| MCWP-MW04S | Shallow | II, III, IV | Quarterly |
| MCWP-MW07S | Shallow | II, III, IV | Quarterly |
| MCWP-MW04D | Deep | II, III, IV | Quarterly |
| MCWP-MW07D | Deep | II, III, IV | Quarterly |
| MCWP-MW09 | Deep | II, III, IV | Quarterly |
| SMBRP-11 | Winter Canyon | II, III, IV | Quarterly |
| LAMW-5S | Winter Canyon | II, III, IV | Quarterly |
| CCPE | Shallow | III, IV | Semi-Annually |
| SMBRP-7B | Shallow | III, IV | Semi-Annually |
| SMBRP-13 | Shallow | III, IV | Semi-Annually |
| MBCMW-9 | Shallow | III, IV | Semi-Annually |
| MCWP-MW10 | Shallow | III, IV | Semi-Annually |
| MCWP-MW05 | Deep | III | Semi-Annually |
| MCWP-MW06 | Deep | III | Semi-Annually |

## Sampling Methodology

Prior to sampling, a minimum of three casing volumes were purged from each well using a submersible pump or by hand bailing. Purging stopped when consecutive water quality measurements (temperature, electrical conductivity, and pH) varied by less than 10 percent or until the well purged dry, whichever occurred first. Field equipment was decontaminated between each well. Purged groundwater and decontamination water were stored in a 100-gallon and 250-gallon high-density polyethylene tank during field activities, and properly disposed at the CCWTF.

Once each well was purged, groundwater samples were collected using preserved and non-preserved containers supplied by Enthalpy. The containers were capped, labeled, placed in Ziploc bags, and stored on ice in coolers pending delivery to Enthalpy. Field data sheets are included in Appendix A.

## Laboratory Analyses

The following table summarizes constituent detections in groundwater samples collected in the second quarter of 2021. For comparison, this table presents results for constituents also analyzed for in surface water samples. In addition to those constituents, total dissolved solids (TDS), which represents the total concentration of dissolved substances in water and are commonly associated

with OWDS effluent, is presented below. For a complete list of analytical results from groundwater samples, please refer to Appendix B.

**Summary of Detected Concentrations in Groundwater**

| Constituent | Number Analyzed | Number Detected | Minimum Detected | Maximum Detected | Average | Unit |
|---|---|---|---|---|---|---|
| Total Coliform | 7 | 5 | 7.5 (MCWP-MW07D) | 1,600 (SMBRP-9) | 357 | MPN/ 100 mL |
| Fecal Coliform | 7 | 1 | – | 1.0 (MCWP-MW07S) | – | MPN/ 100 mL |
| Nitrate as Nitrogen | 7 | 5 | 0.42 (SMBRP-12) | 4.5 (MCWP-MW07S) | 1.6 | mg/L |
| Nitrite as Nitrogen | 7 | 0 | – | – | – | – |
| Organic Nitrogen | 3 | 3 | 0.040 (MCWP-MW07D) | 0.70 (SMBRP-12) | 0.43 | mg/L |
| Ammonia Nitrogen | 7 | 3 | 0.26 (MCWP-MW07D) | 4.8 (SMBRP-12) | 1.04 | mg/L |
| Total Kjeldahl Nitrogen | 7 | 4 | 0.30 (MCWP-MW07D) | 5.5 (SMBRP-12) | 1.28 | mg/L |
| Total Phosphorous | 7 | 7 | 0.043 (SMBRP-9) | 1.0 (SMBRP-12) | 0.33 | mg/L |
| Total Dissolved Solids | 7 | 7 | 1,100 (MCWP-MW07S, MCWP-MW07D) | 4,800 (MCWP-MW04S) | 1,971 | mg/L |

MPN/100 mL – Most Probable Number per 100 milliliters
mg/L – milligrams per liter

## 6.3 Analytical Laboratory QA/QC

Enthalpy performed quality assurance/quality control (QA/QC) measures including the recovery of surrogates. Enthalpy followed all QA/QC procedures per method requirements. The notes column of the analytical reports also has the QC flags. Any issues that are not covered by the qualifier flags (definitions page found below the analytical tables), are addressed as part of the case narrative.

# 7 Scheduled Activities for the Third Quarter of 2021

The following activities will be completed during the Third Quarter of 2021:

- Prepare and submit this Second Quarter 2021 Long-Term Groundwater and Surface Water Monitoring Report to the LARWQCB
- Collect and analyze groundwater and surface water samples for WDR/MRP (Task II), SNMP (Task III), and MOU (Task IV) compliance
- Measure depth to water in the groundwater monitoring wells in July, August, and September 2021 (Task V)

# 8 Summary of Monitoring Activities

## 8.1 Groundwater Elevations

Consistent with past observations, shallow groundwater generally flows south-southeast. During the second quarter of 2021, groundwater elevations decreased in 50 percent of shallow wells (12 out of 24 wells), increased in every deep well, and decreased in every Winter Canyon well, with a total average change of -1.01 feet.

## 8.2 Surface Water Quality

The maximum total coliform concentration in the Near Shore was detected at 2,400 MPN/100 mL in N-004. Total coliform concentrations in Malibu Lagoon and Creek exceeded the upper detection limit of 2,400 MPN/100 mL in L-001, L-003, and L-005 and the upper detection limit of 4,800 MPN/100 mL in L-002. Surface water samples showed an overall increase of total coliform compared to the first quarter of 2021, with an average increase of 1,380 MPN/100 mL.

Fecal coliform was only detected in one of the Near Shore samples (N-004). In Malibu Lagoon and Creek locations, fecal coliform concentrations averaged 75 MPN/100 mL, a decrease from the average from the first quarter of 2021 (90 MPN/100 mL). The highest detected fecal coliform concentration was 280 MPN/100 mL (L-001).

Nitrate as nitrogen and nitrite as nitrogen were not detected in any Near Shore surface water samples. Nitrate as nitrogen was detected in two Malibu Lagoon and Creek samples, with the maximum concentration detected at L-002 (0.40 mg/L). Organic nitrogen averaged 0.065 mg/L in Near Shore samples and 0.59 mg/L in Malibu Lagoon and Creek samples. When compared to the first quarter of 2021, organic nitrogen concentrations had an average decrease of 0.28 mg/L in the Near Shore samples and an average decrease of 0.26 mg/L in the Malibu Lagoon and Creek samples.

Phosphorous concentrations decreased with an average concentration of 0.41 mg/L compared to the average concentration of 0.46 mg/L observed in the first quarter of 2021.

## 8.3 Groundwater Quality

When comparing analytical results from the first quarter of 2021 to the second quarter of 2021, note that seven groundwater monitoring wells were sampled during the second quarter of 2021 (Task II), and seven wells were sampled during the first quarter of 2021 (Task II, III, and IV). Of these same seven wells sampled during these two periods, total coliform decreased in five monitoring wells and increased in two monitoring wells, with an average decrease of 550 MPN/100 mL compared to the first quarter of 2021. Fecal coliform concentrations decreased in four wells and remained below the RDL in three wells, with an average decrease of 185 MPN/100 mL compared to the first quarter of 2021.

When compared to the first quarter of 2021, nitrate concentrations increased in two wells, decreased in three wells, and remained the same in two wells. The average concentration remained the same when compared to the first quarter of 2021.

When compared to the first quarter of 2021, average TDS concentrations in groundwater samples increased from an average of 1,781 mg/L to 1,971 mg/L in the second quarter of 2021.

# 9 Limitations

This report has been prepared for and is intended for the exclusive use of the City of Malibu. The contents of this report should not be relied upon by any other party without the written consent of Rincon Consultants, Inc.

Our conclusions regarding the site are based on observations of existing site conditions, our interpretation of site usage information, and the results of a limited subsurface sampling and chemical testing program. The concentrations of contaminants measured at any given location may not be representative of conditions at other locations intermediate to the locations sampled. Furthermore, conditions may change at any location as a function of time in response to natural conditions, chemical reactions, and other events. Conclusions regarding the condition of the site do not represent a warranty that all areas within the site are like those sampled.

# 10 References

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_____. 2015b. Draft Groundwater Management Plan Malibu Valley Groundwater Basin.

# Tables

# Table 1
## Groundwater Elevations

| Shallow Groundwater Monitoring Wells | | | | |
|---|---|---|---|---|
| **Well ID** | **Date** | **TOC Elevation** (ft) | **Depth to Water** (ft bTOC) | **Groundwater Elevation** |
| C-1 | 4/30/2021 | 11.47 | 4.67 | 6.80 |
| C-1 | 5/17/2021 | 11.47 | 4.70 | 6.77 |
| C-1 | 6/9/2021 | 11.47 | 4.66 | 6.81 |
| C-2 | 4/30/2021 | 11.19 | 4.46 | 6.73 |
| C-2 | 5/17/2021 | 11.19 | 4.52 | 6.67 |
| C-2 | 6/9/2021 | 11.19 | 4.44 | 6.75 |
| CCPE | 4/30/2021 | 12.94 | 6.05 | 6.89 |
| CCPE | 5/17/2021 | 12.94 | 5.72 | 7.22 |
| CCPE | 6/9/2021 | 12.94 | 5.45 | 7.49 |
| CCPNE | 4/30/2021 | 13.68 | 6.80 | 6.88 |
| CCPNE | 5/17/2021 | 13.68 | 6.50 | 7.18 |
| CCPNE | 6/9/2021 | 13.68 | 6.20 | 7.48 |
| CCPSW | 4/30/2021 | 13.67 | 6.78 | 6.89 |
| CCPSW | 5/17/2021 | 13.67 | 6.37 | 7.30 |
| CCPSW | 6/9/2021 | 13.67 | 6.13 | 7.54 |
| CCW-4 | 4/30/2021 | 15.77 | 6.53 | 9.24 |
| CCW-4 | 5/17/2021 | 15.77 | 6.72 | 9.05 |
| CCW-4 | 6/9/2021 | 15.77 | 7.04 | 8.73 |
| GH6-M1 | 4/30/2021 | - | 28.75 | - |
| GH6-M1 | 5/17/2021 | - | 28.82 | - |
| GH6-M1 | 6/9/2021 | - | 28.92 | - |
| GH8-M3 | 4/30/2021 | - | 28.10 | - |
| GH8-M3 | 5/17/2021 | - | 28.12 | - |
| GH8-M3 | 6/9/2021 | - | 28.24 | - |
| GH9-M4 | 4/30/2021 | - | Buried | - |
| GH9-M4 | 5/17/2021 | - | Buried | - |
| GH9-M4 | 6/9/2021 | - | Buried | - |
| M6-1 | 4/30/2021 | - | 6.95 | - |
| M6-1 | 5/17/2021 | - | 6.75 | - |
| M6-1 | 6/9/2021 | - | 6.83 | - |
| M6-2 | 4/30/2021 | - | 5.72 | - |
| M6-2 | 5/17/2021 | - | 5.94 | - |
| M6-2 | 6/9/2021 | - | 6.10 | - |
| M7-1 | 4/30/2021 | - | 8.53 | - |
| M7-1 | 5/17/2021 | - | 8.57 | - |
| M7-1 | 6/9/2021 | - | 7.82 | - |
| M7-2 | 4/30/2021 | - | 7.90 | - |
| M7-2 | 5/17/2021 | - | 8.18 | - |
| M7-2 | 6/9/2021 | - | 8.47 | - |
| MBCMW-5 | 4/30/2021 | 19.40 | Dry | - |
| MBCMW-5 | 5/17/2021 | 19.40 | Dry | - |
| MBCMW-5 | 6/9/2021 | 19.40 | Dry | - |
| MBCMW-7 | 4/30/2021 | 16.64 | 11.30 | 5.34 |
| MBCMW-7 | 5/17/2021 | 16.64 | 11.38 | 5.26 |
| MBCMW-7 | 6/9/2021 | 16.64 | 11.46 | 5.18 |
| MBCMW-8 | 4/30/2021 | 16.53 | 8.70 | 7.83 |
| MBCMW-8 | 5/17/2021 | 16.53 | 8.92 | 7.61 |
| MBCMW-8 | 6/9/2021 | 16.53 | 9.27 | 7.26 |
| MBCMW-9 | 4/30/2021 | 17.71 | 8.34 | 9.37 |
| MBCMW-9 | 5/17/2021 | 17.71 | 8.58 | 9.13 |
| MBCMW-9 | 6/9/2021 | 17.71 | 8.86 | 8.85 |

# Table 1
## Groundwater Elevations

| Shallow Groundwater Monitoring Wells | | | | |
|---|---|---|---|---|
| **Well ID** | **Date** | **TOC Elevation** (ft) | **Depth to Water** (ft bTOC) | **Groundwater Elevation** |
| MBCMW-10 | 4/30/2021 | 17.74 | 8.73 | 9.01 |
| MBCMW-10 | 5/17/2021 | 17.74 | 8.69 | 9.05 |
| MBCMW-10 | 6/9/2021 | 17.74 | 8.56 | 9.18 |
| MCWP-MW04S | 4/30/2021 | 15.29 | 6.95 | 8.34 |
| MCWP-MW04S | 5/17/2021 | 15.29 | 7.26 | 8.03 |
| MCWP-MW04S | 6/9/2021 | 15.29 | 7.57 | 7.72 |
| MCWP-MW07S | 4/30/2021 | 13.72 | 5.88 | 7.84 |
| MCWP-MW07S | 5/17/2021 | 13.72 | 5.90 | 7.82 |
| MCWP-MW07S | 6/9/2021 | 13.72 | 5.91 | 7.81 |
| MCWP-MW08 | 4/30/2021 | 12.21 | 7.80 | 4.41 |
| MCWP-MW08 | 5/17/2021 | 12.21 | 9.63 | 2.58 |
| MCWP-MW08 | 6/9/2021 | 12.21 | 7.50 | 4.71 |
| MCWP-MW10 | 4/30/2021 | 11.11 | 6.10 | 5.01 |
| MCWP-MW10 | 5/17/2021 | 11.11 | 5.80 | 5.31 |
| MCWP-MW10 | 6/9/2021 | 11.11 | 5.54 | 5.57 |
| P-4 | 4/30/2021 | 12.16 | 5.41 | 6.75 |
| P-4 | 5/17/2021 | 12.16 | 5.02 | 7.14 |
| P-4 | 6/9/2021 | 12.16 | 4.43 | 7.73 |
| P-9 | 4/30/2021 | 12.17 | 5.49 | 6.68 |
| P-9 | 5/17/2021 | 12.17 | 5.42 | 6.75 |
| P-9 | 6/9/2021 | 12.17 | 4.75 | 7.42 |
| SMBRP-2 | 4/30/2021 | 13.13 | 6.45 | 6.68 |
| SMBRP-2 | 5/17/2021 | 13.13 | 6.02 | 7.11 |
| SMBRP-2 | 6/9/2021 | 13.13 | 5.73 | 7.40 |
| SMBRP-6 | 4/30/2021 | 26.88 | 15.86 | 11.02 |
| SMBRP-6 | 5/17/2021 | 26.88 | 16.15 | 10.73 |
| SMBRP-6 | 6/9/2021 | 26.88 | 16.87 | 10.01 |
| SMBRP-7B | 4/30/2021 | 18.99 | 12.21 | 6.78 |
| SMBRP-7B | 5/17/2021 | 18.99 | 12.54 | 6.45 |
| SMBRP-7B | 6/9/2021 | 18.99 | 12.78 | 6.21 |
| SMBRP-8 (EC1-RC-MW01) | 4/30/2021 | 48.69 | 28.02 | 20.67 |
| SMBRP-8 (EC1-RC-MW01) | 5/17/2021 | 48.69 | 28.15 | 20.54 |
| SMBRP-8 (EC1-RC-MW01) | 6/9/2021 | 48.69 | 28.22 | 20.47 |
| SMBRP-9 | 4/30/2021 | 50.32 | 37.37 | 12.95 |
| SMBRP-9 | 5/17/2021 | 50.32 | 37.50 | 12.82 |
| SMBRP-9 | 6/9/2021 | 50.32 | 37.62 | 12.70 |
| SMBRP-10C | 4/30/2021 | 16.25 | Removed | - |
| SMBRP-10C | 5/17/2021 | 16.25 | Removed | - |
| SMBRP-10C | 6/9/2021 | 16.25 | Removed | - |
| SMBRP-12 | 4/30/2021 | 12.62 | 7.16 | 5.46 |
| SMBRP-12 | 5/17/2021 | 12.62 | 7.18 | 5.44 |
| SMBRP-12 | 6/9/2021 | 12.62 | 6.91 | 5.71 |
| SMBRP-13 | 4/30/2021 | 13.58 | 8.12 | 5.46 |
| SMBRP-13 | 5/17/2021 | 13.58 | 8.10 | 5.48 |
| SMBRP-13 | 6/9/2021 | 13.58 | 8.29 | 5.29 |
| SMBRP-15B | 4/30/2021 | 16.77 | Dry | - |
| SMBRP-15B | 5/17/2021 | 16.77 | Dry | - |
| SMBRP-15B | 6/9/2021 | 16.77 | Dry | - |
| SMBRP-16 | 4/30/2021 | 14.50 | 4.80 | 9.70 |
| SMBRP-16 | 5/17/2021 | 14.50 | 5.05 | 9.45 |
| SMBRP-16 | 6/9/2021 | 14.50 | 5.38 | 9.12 |

# Table 1
## Groundwater Elevations

| Deep Groundwater Monitoring Wells | | | | |
|---|---|---|---|---|
| **Well ID** | **Date** | **TOC Elevation** (ft) | **Depth to Water** (ft bTOC) | **Groundwater Elevation** |
| MCWP-MW01 | 4/30/2021 | 17.90 | 10.50 | 7.40 |
| MCWP-MW01 | 5/17/2021 | 17.90 | 10.49 | 7.41 |
| MCWP-MW01 | 6/9/2021 | 17.90 | 10.31 | 7.59 |
| MCWP-MW02 | 4/30/2021 | 18.06 | 11.20 | 6.86 |
| MCWP-MW02 | 5/17/2021 | 18.06 | 10.82 | 7.24 |
| MCWP-MW02 | 6/9/2021 | 18.06 | 10.35 | 7.71 |
| MCWP-MW03 | 4/30/2021 | 15.31 | 8.50 | 6.81 |
| MCWP-MW03 | 5/17/2021 | 15.31 | 8.60 | 6.71 |
| MCWP-MW03 | 6/9/2021 | 15.31 | 7.86 | 7.45 |
| MCWP-MW04D | 4/30/2021 | 15.43 | 9.70 | 5.73 |
| MCWP-MW04D | 5/17/2021 | 15.43 | 9.60 | 5.83 |
| MCWP-MW04D | 6/9/2021 | 15.43 | 9.47 | 5.96 |
| MCWP-MW05 | 4/30/2021 | 13.92 | 7.87 | 6.05 |
| MCWP-MW05 | 5/17/2021 | 13.92 | 7.83 | 6.09 |
| MCWP-MW05 | 6/9/2021 | 13.92 | 7.62 | 6.30 |
| MCWP-MW06 | 4/30/2021 | 16.05 | 10.11 | 5.94 |
| MCWP-MW06 | 5/17/2021 | 16.05 | 9.97 | 6.08 |
| MCWP-MW06 | 6/9/2021 | 16.05 | 9.90 | 6.15 |
| MCWP-MW07D | 4/30/2021 | 13.21 | 8.33 | 4.88 |
| MCWP-MW07D | 5/17/2021 | 13.21 | 8.44 | 4.77 |
| MCWP-MW07D | 6/9/2021 | 13.21 | 7.72 | 5.49 |
| MCWP-MW09 | 4/30/2021 | 16.30 | 6.40 | 9.90 |
| MCWP-MW09 | 5/17/2021 | 16.30 | 6.23 | 10.07 |
| MCWP-MW09 | 6/9/2021 | 16.30 | 5.91 | 10.39 |

# Table 1
## Groundwater Elevations

| Winter Canyon Groundwater Monitoring Wells | | | | |
|---|---|---|---|---|
| **Well ID** | **Date** | **TOC Elevation** (ft) | **Depth to Water** (ft bTOC) | **Groundwater Elevation** |
| LAMW-5S | 4/30/2021 | 104.55 | 58.10 | 46.45 |
| LAMW-5S | 5/17/2021 | 104.55 | 58.27 | 46.28 |
| LAMW-5S | 6/9/2021 | 104.55 | 58.80 | 45.75 |
| SMBRP-11 | 4/30/2021 | 18.35 | 8.40 | 9.95 |
| SMBRP-11 | 5/17/2021 | 18.35 | 8.35 | 10.00 |
| SMBRP-11 | 6/9/2021 | 18.35 | 8.41 | 9.94 |

**Notes:**

Elevations measured in feet above mean sea level

Two shallow wells have been removed from the original monitoring network; GH9-M4 has been buried as of the September 2018 monitoring event and MBCMW-6 was removed following grading activities in 2019

-: No data available

TOC: Top of well casing

ft bTOC: Feet below top of well casing

# Table 2
## Groundwater and Surface Water Analytical Matrix

| **Groundwater** | Long-Term, SNMP, MOU (Tasks II, III, IV) | | | | | | | | | SNMP, MOU (Tasks III, IV) | | | | | SNMP (Task III) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Shallow Zone | | | | Deep Zone | | | Winter Canyon | | Shallow Zone | | | | | Deep Zone | |
| *Laboratory Analysis*[1] | *SMBRP-9* | *SMBRP-12* | *MCWP-MW04S* | *MCWP-MW07S* | *MCWP-MW04D* | *MCWP-MW07D* | *MCWP-MW09* | *SMBRP-11*[2] | *LAMW-5S* | *CCPE* | *SMBRP-7B* | *SMBRP-13* | *MBCMW-9* | *MCWP-MW10* | *MCWP-MW05* | *MCWP-MW06* |
| *General Chemistry (Long-Term sampled quarterly, SNMP and MOU sampled semi-annually)* | | | | | | | | | | | | | | | | |
| General Chemistry (pH, Total Dissolved Solids, Sulfate, Chloride, Boron, Methylene Blue Active Substances [MBAS]/Foaming Agents) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Biological Oxygen Demand (BOD) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Turbidity (includes color and odor) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Total and Fecal Coliform | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Total Suspended Solids | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Residual Chlorine | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Total Organic Carbon | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Oil and Grease | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Nitrate as Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Nitrite as Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Nitrate and Nitrite as Nitrogen (calculation) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Ammonia Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Kjeldahl Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Organic Nitrogen (calculation) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Total Nitrogen (includes TKN) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Total Phosphorous | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |

| **Surface Water** | Long-Term (Task II) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Near Shore Ocean | | | | Malibu Lagoon and Creek | | | | | |
| *Laboratory Analysis (quarterly)* | *N-001* | *N-002* | *N-003* | *N-004* | *L-001* | *L-002* | *L-003* | *L-004* | *L-005* | *L-006* |
| Total and Fecal Coliform | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Nitrate as Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Nitrite as Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Ammonia Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Organic Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Kjeldahl Nitrogen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Total Phosphorous | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

**Notes:**

Task II: Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring of the Civic Center Area
Task III: Salt and Nutrient Management Plan (SNMP) Monitoring Program
Task IV: Memorandum of Understanding (MOU) Compliance Monitoring

[1]: Depending on quarterly flows of recycled water from the CCWTF to the percolation ponds, the number of Long-Term Groundwater Monitoring samples collected for a given quarter may be reduced from nine (9) to seven (7) groundwater monitoring wells. This reduced number of groundwater monitoring wells is allowed when no more than 10 percent greater than the permitted flows are discharged to the percolation ponds, per page 12 and 13 of the Monitoring and Reporting Program (MRP) No. CI 10042

[2]: TY-MW-1 was replaced by SMBRP-11 per LARWQCB correspondence with City of Malibu dated May 18, 2018

✓: Laboratory analysis completed
- : Sampling & analysis not required

# Table 3
## Surface Water Analytical Results

| Location | Monitoring Depth | Sample ID | Sample Date | Coliform Bacteria Analysis (MPN/100 mL) | | Inorganic Analysis (mg/L) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Fecal | Nitrate Nitrogen | Nitrite Nitrogen | Organic Nitrogen | Ammonia Nitrogen | Kjeldahl Nitrogen | Total Nitrogen | Total Phosphorous |
| Near Shore | Ankle Depth | N-001 | 5/18/2021 | = **350** | < 1.0 | < 0.10 | < 5.0 | = **0.045** | = **0.018 J** | = **0.063 J** | = | = **0.47** |
| Near Shore | Ankle Depth | N-002 | 5/18/2021 | = **360** | < 1.0 | < 0.10 | < 5.0 | = **0.13** | < 0.10 | = **0.13 J** | **-** | = **0.73** |
| Near Shore | Ankle Depth | N-003 | 5/18/2021 | = **1,400** | < 1.0 | < 0.10 | < 5.0 | = **0.020** | = **0.034 J** | = **0.054 J** | = | = **0.82** |
| Near Shore | Ankle Depth | N-004 | 5/18/2021 | = **2,400** | = **1.0** | < 0.10 | < 5.0 | **-** | < 0.10 | < 0.40 | = | = **0.63** |
| Malibu Lagoon and Creek | 1 foot BSW | L-001 | 5/18/2021 | > **2,400** | = **280** | = **0.25** | < 5.0 | = **0.26** | = **0.038 J** | = **0.30 J** | = | = **0.26** |
| Malibu Lagoon and Creek | 1 foot BSW | L-002 | 5/18/2021 | > **4,800** | = **32** | = **0.40** | < 5.0 | = **0.36** | = **0.040 J** | = **0.40** | = | = **0.28** |
| Malibu Lagoon and Creek | 1 foot BSW | L-003 | 5/18/2021 | > **2,400** | = **9.7** | < 0.10 | < 5.0 | = **0.88** | = **0.033 J** | = **0.91** | = | = **0.19** |
| Malibu Lagoon and Creek | 1 foot BSW | L-004 | 5/18/2021 | > **870** | = **5.2** | < 0.10 | < 5.0 | = **0.60** | < 0.10 | = **0.60** | = | = **0.057** |
| Malibu Lagoon and Creek | 1 foot BSW | L-005 | 5/18/2021 | > **2,400** | = **110** | < 1.0 | < 5.0 | = **0.45** | < 0.10 | = **0.45** | = | = **0.33** |
| Malibu Lagoon and Creek | 1 foot BSW | L-006 | 5/18/2021 | > **1,100** | = **13** | < 0.10 | < 5.0 | = **0.96** | = **0.024 J** | = **0.98** | = | = **0.34** |

**Notes:**

**bold**: Constituent detected above Reporting Detection Limit (RDL)
=: Constituent detected at reported concentration
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit
BSW: Below surface of water
J: Estimated value; the consituent was detected above the method detection limit, but below the RDL
mg/L: Milligrams per liter
MPN/100 mL: Most Probable Number per 100 milliliters

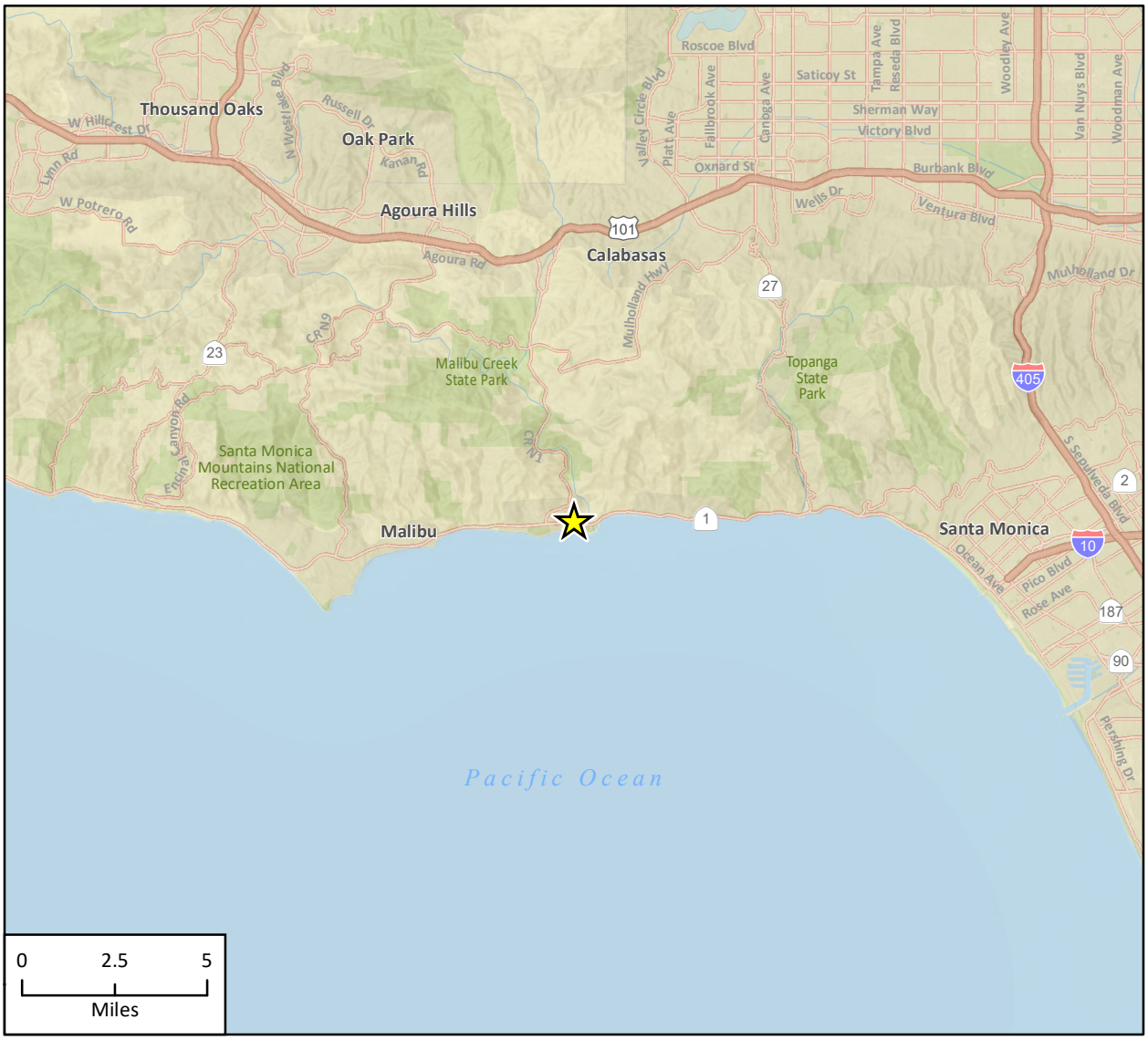
Table 4
Groundwater Analytical Results

| Well ID | Well Depth (feet bgs) | Sample Date | Coliform Bacteria (MPN/100 mL) | | Inorganic Analyses (mg/L) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Fecal | Nitrate Nitrogen | Nitrite Nitrogen | Organic Nitrogen | Ammonia Nitrogen | Total Kjeldahl Nitrogen | Total Nitrogen | Total Phosphorous | Boron | Sulfate | Total Dissolved Solids | Chloride |
| SMBRP-9 | 45 | 5/19/2021 | = **1,600** | < 1.0 | = **3.6** | < 0.10 | - | < 0.10 | < 0.40 | = **3.6** | = **0.043** | = **0.61** | = **160** | = **1,200** | = **120** |
| SMBRP-12 | 25 | 5/18/2021 | = **170** | < 1.0 | = **0.42** | < 0.10 | = **0.70** | = **4.8** | = **5.5** | = **5.9** | = **1.0** | = **0.66** | = **320** | = **1,700** | = **300** |
| MCWP-MW04S | 20 | 5/18/2021 | = **610** | < 1.0 | = **1.2** | < 0.10 | = **0.56** | < 0.10 | = **0.56** | = **1.8** | = **0.35** | = **1.9** | = **2,700** | = **4,800** | = **540** |
| MCWP-MW04D | 145 | 5/19/2021 | < 1.0 | < 1.0 | = **1.4** | < 0.10 | - | < 0.10 | < 0.40 | = **1.4** | = **0.44** | = **0.81** | = **570** | = **1,600** | = **230** |
| MCWP-MW07S | 20 | 5/18/2021 | = **110** | = **1.0** | = **4.5** | < 0.10 | - | < 0.10 | < 0.40 | = **4.5** | = **0.26** | = **0.39** | = **250** | = **1,100** | = **190** |
| MCWP-MW07D | 134 | 5/18/2021 | = **7.5** | < 1.0 | < 0.10 | < 0.10 | = **0.040** | = **0.26** | = **0.30 J** | = **0.30** | = **0.11** | = **0.50** | = **230** | = **1,100** | = **280** |
| MCWP-MW09 | 89 | 5/18/2021 | < 1.0 | < 1.0 | < 0.10 | < 0.10 | - | = **2.0** | = **2.0** | = **2.0** | = **0.11** | = **0.85** | = **560** | = **2,300** | = **700** |

**Notes:**

**bold**: Constituent detected above Reporting Detection Limit (RDL)
=: Constituent detected at reported concentration
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit
mg/L: Milligrams per liter
MPN/100 mL: Most Probable Number per 100 milliliters
J: Estimated value; the consituent was detected above the method detection limit, but below the RDL

# Figures




Project Location

N




Vicinity Map

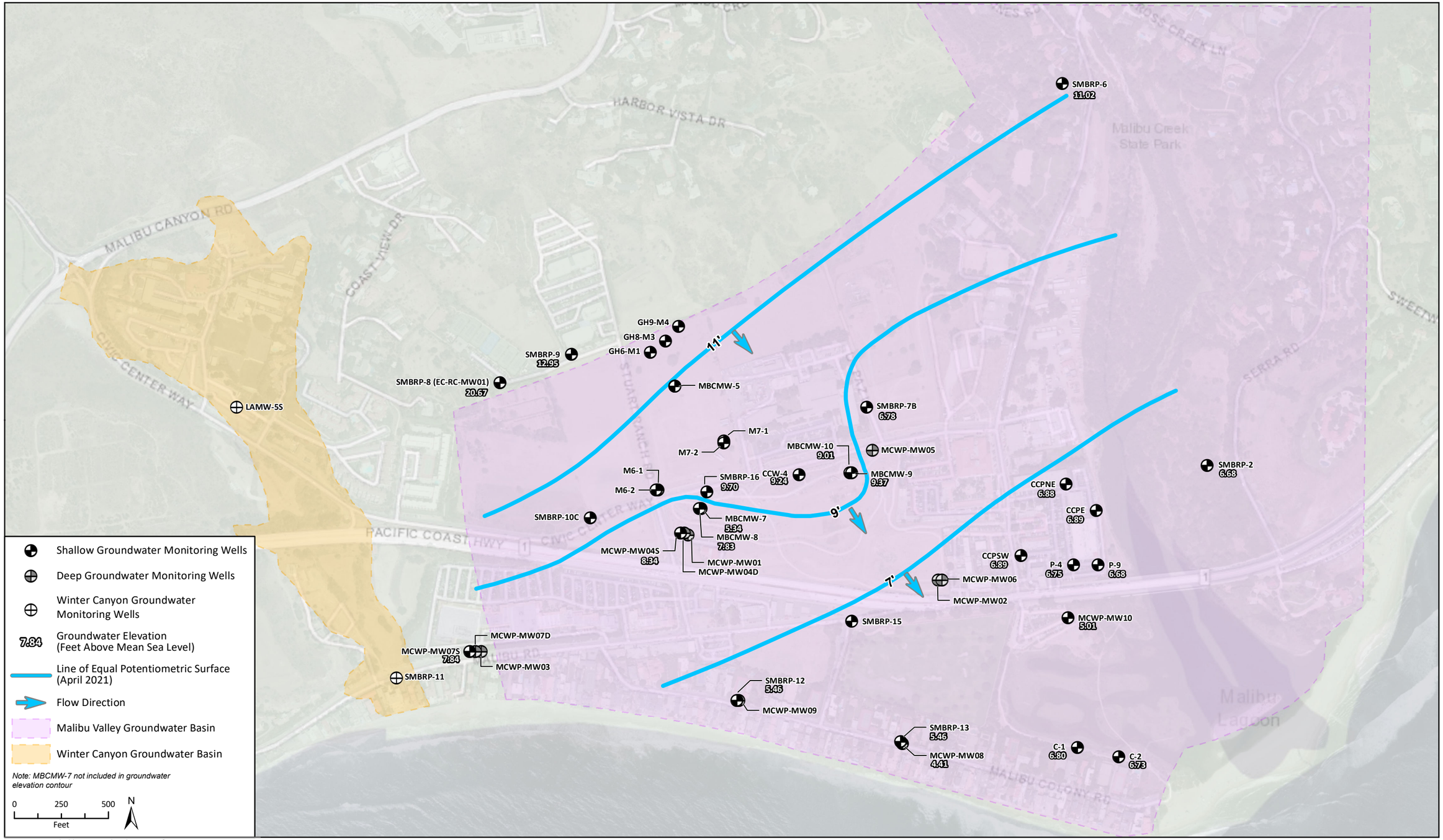
Figure 1




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Site Map - Monitoring Network

Figure 2

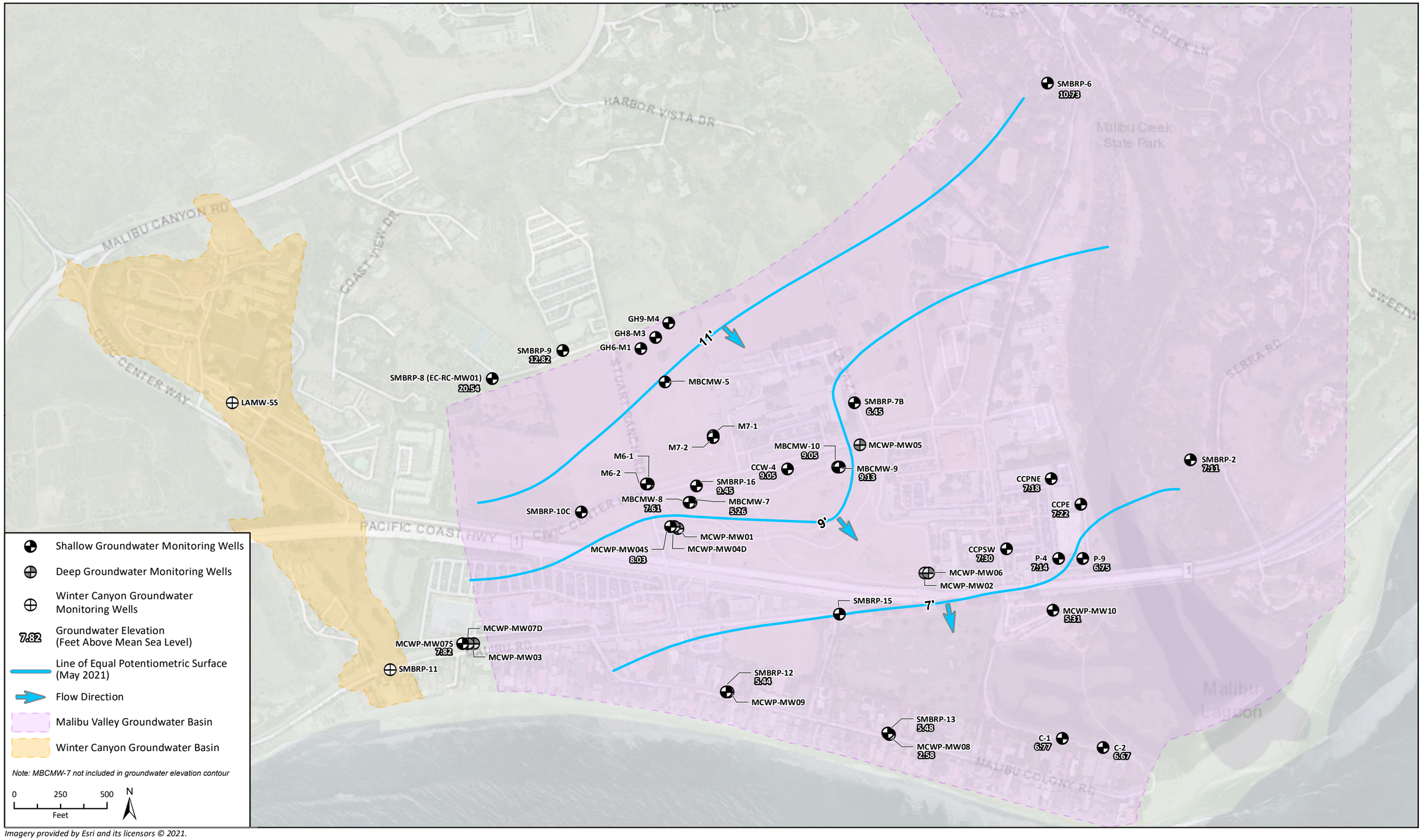



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Shallow Groundwater Elevation - April 2021

Figure 3

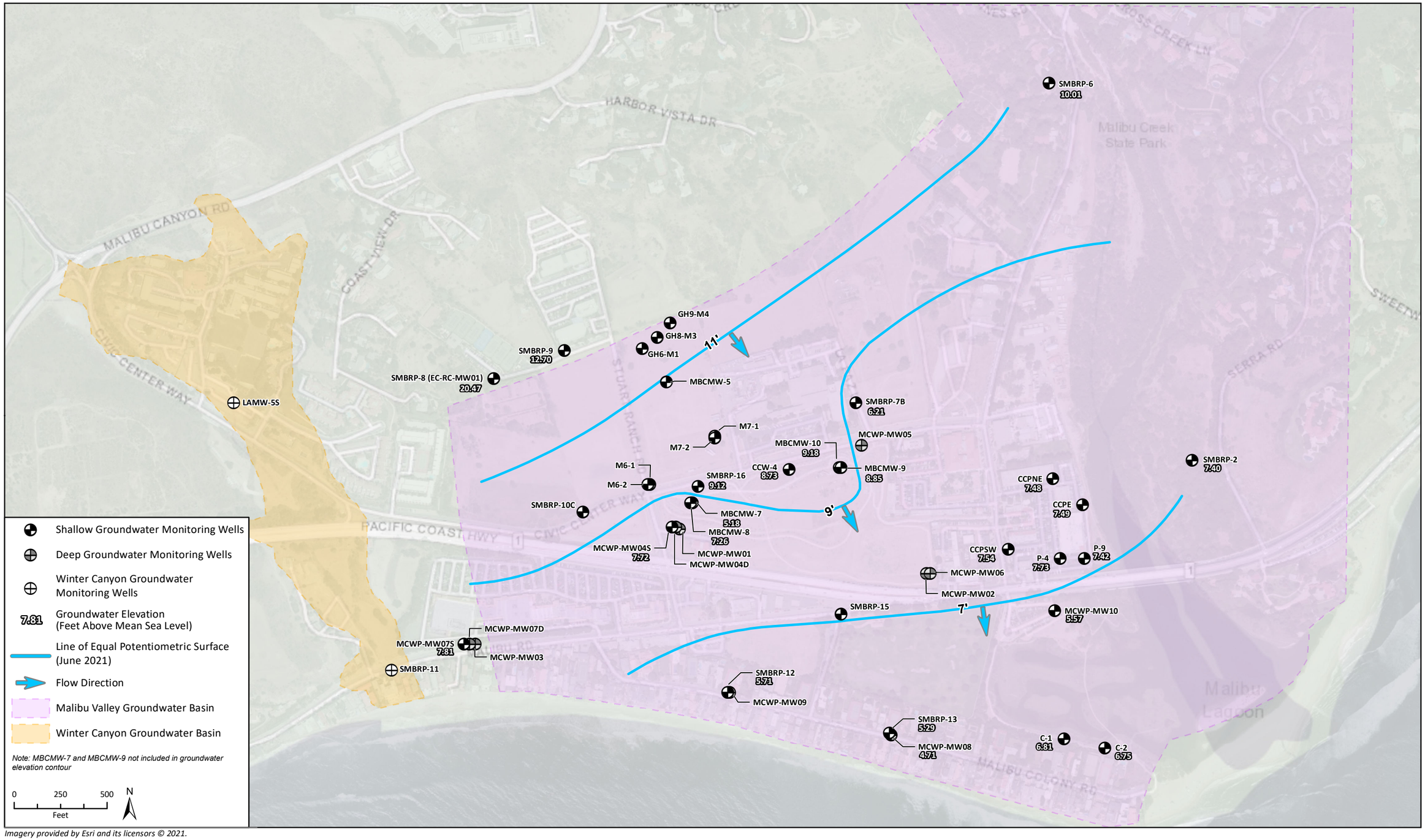
**Rincon Consultants Inc.**




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Shallow Groundwater Elevation - May 2021

Figure 4

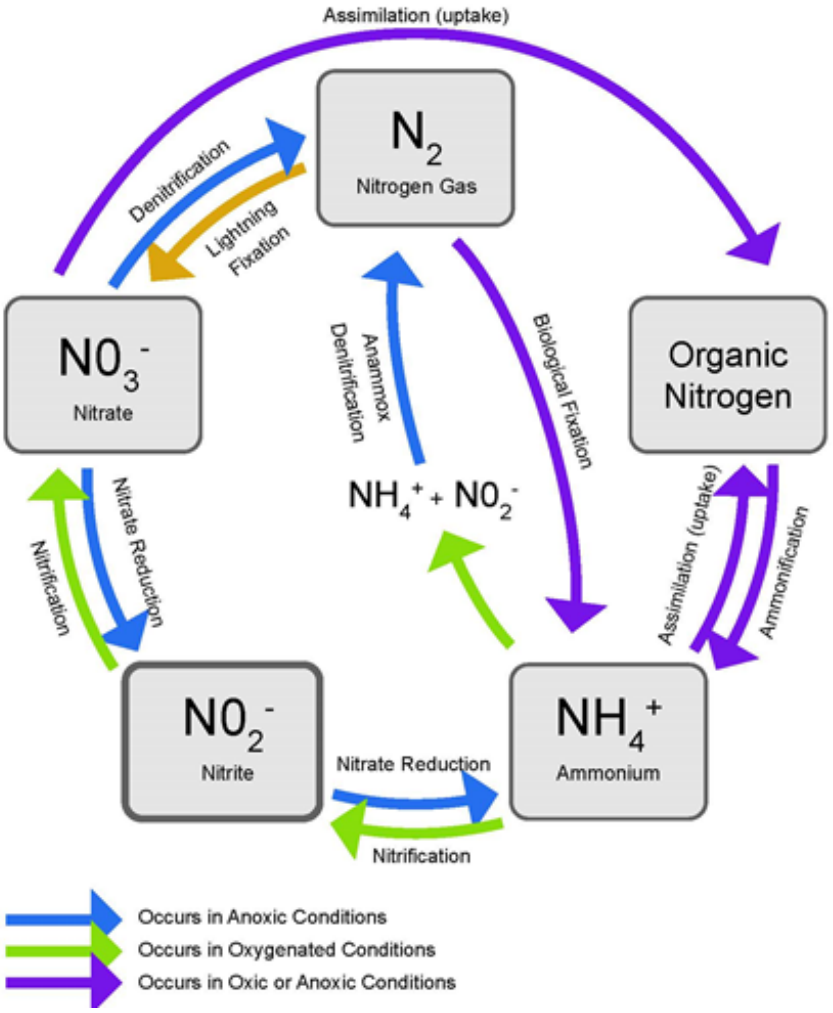



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Shallow Groundwater Elevation - June 2021

Figure 5

**Rincon Consultants Inc.**




The Nitrogen Cycle Figure 6

# Appendix A

Groundwater and Surface Water Field Sheets

# Depth to Groundwater Measurements

| | | | |
|---|---|---|---|
| **Job No:** | 20-09665 | **Event:** | April Monthly |
| **Project:** | Malibu CCWTF | **Date:** | April 30, 2021 |
| **Location:** | Malibu, CA | **Measured By:** | Michelle Carter |

| Well ID | Total Well Depth (ft bTOC) | | Well Diameter (in) | Depth to Water (ft bTOC) | Time | Notes/ Well Condition |
|---|---|---|---|---|---|---|
| | Historical | Measured | | | | |
| C-1 | 14.50 | | N/A | 4.67 | 11:21 | Missing bolt |
| C-2 | 14.20 | | 2 | 4.46 | 11:26 | Missing bolt |
| CCPE | 52.70 | | 2 | 6.05 | 00:09 | Lid does not fit properly. |
| CCPNE | 24.10 | | 2 | 6.8 | 00:03 | Missing bolt |
| CCPSW | 19.90 | | 2 | 6.78 | 00:15 | Missing bolts |
| CCW-4 | 12.30 | | 1 | 6.53 | 13:44 | |
| GH6-M1 | 35.20 | | 2 | 28.75 | 14:02 | |
| GH8-M3 | 40.21 | | 2 | 28.1 | 14:05 | |
| GH9-M4 | 44.29 | - | 2 | N/A | - | Well has been buried |
| Lagoon | N/A | - | N/A | N/A | - | Well has been removed |
| LAMW-5S | 73.43 | | 4 | 58.1 | 14:17 | |
| M6-1 | 45.30 | | 2 | 6.95 | 14:09 | |
| M6-2 | 19.40 | | 2 | 5.72 | 14:10 | |
| M7-1 | 39.35 | | 2 | 8.53 | 13:57 | |
| M7-2 | 19.60 | | 2 | 7.9 | 13:58 | |
| MBCMW-5 | 19.40 | | 2 | N/A | 14:00 | Dry |
| MBCMW-6 | 64.26 | - | N/A | N/A | - | Well has been removed |
| MBCMW-7 | 52.15 | | 2 | 11.3 | 12:49 | |
| MBCMW-8 | 11.95 | | 2 | 8.7 | 12:50 | |
| MBCMW-9 | 9.25 | | 2 | 8.34 | 13:40 | Missing bolts |
| MBCMW-10 | 51.75 | | 2 | 8.73 | 13:41 | Missing bolts |
| MCWP-MW01 | 152.88 | | 6 | 10.5 | 12:39 | Missing bolts |
| MCWP-MW02 | 148.20 | | 6 | 11.2 | 00:23 | Missing bolts |
| MCWP-MW03 | 136.65 | | 6 | 8.5 | 10:36 | Missing bolts |
| MCWP-MW04D | 149.20 | | 4 | 9.7 | 12:34 | |
| MCWP-MW04S | 20.45 | | 4 | 6.95 | 00:32 | Missing bolts |
| MCWP-MW05 | 154.40 | | 4 | 7.87 | 13:48 | Missing bolt |
| MCWP-MW06 | 138.15 | | 2 | 10.11 | 12:22 | Missing bolts |
| MCWP-MW07D | 129.60 | | 2 | 8.33 | 10:35 | Missing bolts |
| MCWP-MW07S | 17.22 | | 2 | 5.88 | 10:34 | Missing bolt |
| MCWP-MW08 | 79.38 | | 2 | 7.8 | 10:56 | |
| MCWP-MW09 | 89.60 | | 2 | 6.4 | 10:50 | Missing bolt |
| MCWP-MW10 | 22.23 | | 2 | 6.1 | 11:19 | |
| P-4 | 14.57 | | 4 | 5.41 | 12:17 | Missing bolts |
| P-9 | 13.90 | | 4 | 5.49 | 12:18 | Missing bolts, landscaping material in well box |
| SMBRP-2 | 24.88 | | 2 | 6.45 | 11:49 | Missing bolt |
| SMBRP-6 | 23.45 | | 2 | 15.86 | 11:58 | Missing bolt |
| SMBRP-7B | 25.13 | | 2 | 12.21 | 13:53 | |
| SMBRP-8 (EC-RC-MW01) | 40.46 | | 4 | 28.02 | 11:27 | |
| SMBRP-9 | 45.40 | | 2 | 37.37 | 11:28 | |
| SMBRP-10C | 25.00 | | N/A | N/A | - | Removed |
| SMBRP-11 | 20.38 | | 2 | 8.4 | 10:45 | Missing bolt |
| SMBRP-12 | 24.88 | | 2 | 7.16 | 10:52 | |
| SMBRP-13 | 19.48 | | 2 | 8.12 | 10:58 | |
| SMBRP-15b | 16.77 | - | 1 | N/A | - | Dry |
| SMBRP-16 | 25.00 | | 2 | 4.8 | 12:51 | Missing bolts |

# Depth to Groundwater Measurements

| | | | |
|---|---|---|---|
| **Job No:** | 20-09665 | **Event:** | May Monthly |
| **Project:** | Malibu CCWTF | **Date:** | May 17, 2021 |
| **Location:** | Malibu, CA | **Measured By:** | Michelle Carter |

| **Well ID** | **Total Well Depth** (ft bTOC) | | **Well Diameter** (in) | **Depth to Water** (ft bTOC) | **Time** | **Notes/ Well Condition** |
|---|---|---|---|---|---|---|
| | Historical | Measured | | | | |
| C-1 | 14.50 | | N/A | 4.7 | 10:59 | |
| C-2 | 14.20 | | 2 | 4.52 | 11:02 | |
| CCPE | 52.70 | | 2 | 5.72 | 12:13 | |
| CCPNE | 24.10 | | 2 | 6.5 | 12:10 | Missing Bolts |
| CCPSW | 19.90 | | 2 | 6.37 | 12:30 | Missing bolts |
| CCW-4 | 12.30 | | 1 | 6.72 | 11:20 | |
| GH6-M1 | 35.20 | | 2 | 28.81 | 10:55 | |
| GH8-M3 | 40.21 | | 2 | 28.12 | 10:52 | |
| GH9-M4 | 44.29 | - | 2 | N/A | - | Well has been buried |
| Lagoon | N/A | - | N/A | N/A | - | Well has been removed |
| LAMW-5S | 73.43 | | 4 | 58.27 | 10:00 | |
| M6-1 | 45.30 | | 2 | 6.75 | 10:40 | |
| M6-2 | 19.40 | | 2 | 5.94 | 10:42 | |
| M7-1 | 39.35 | | 2 | 8.57 | 10:45 | |
| M7-2 | 19.60 | | 2 | 8.18 | 10:45 | |
| MBCMW-5 | 19.40 | 18.26 | N/A | | 11:25 | Dry |
| MBCMW-6 | 64.26 | - | N/A | N/A | - | Well has been removed |
| MBCMW-7 | 52.15 | | 2 | 11.38 | 11:12 | |
| MBCMW-8 | 11.95 | | 2 | 8.92 | 11:13 | |
| MBCMW-9 | 9.25 | | 2 | 8.58 | 12:58 | |
| MBCMW-10 | 51.75 | | 2 | 8.69 | 12:59 | |
| MCWP-MW01 | 152.88 | | 6 | 10.49 | 11:40 | |
| MCWP-MW02 | 148.20 | | 6 | 10.82 | 12:37 | |
| MCWP-MW03 | 136.65 | | 6 | 8.6 | 09:52 | Missing both bolts |
| MCWP-MW04D | 149.20 | 145.18 | 4 | 9.6 | 11:45 | |
| MCWP-MW04S | 20.45 | 20.27 | 4 | 7.26 | 11:50 | |
| MCWP-MW05 | 154.40 | 152.15 | 4 | 7.83 | 11:57 | Missing Bolt, Logger temporarily deployed at 1158 am |
| MCWP-MW06 | 138.15 | | 2 | 9.97 | 12:36 | |
| MCWP-MW07D | 129.60 | | 2 | 8.44 | 09:49 | Missing both bolts |
| MCWP-MW07S | 17.22 | | 2 | 5.9 | 09:45 | Missing Bolt |
| MCWP-MW08 | 79.38 | | 2 | 9.63 | 10:24 | |
| MCWP-MW09 | 89.60 | 89.15 | 2 | 6.23 | 10:14 | |
| MCWP-MW10 | 22.23 | | 2 | 5.8 | 10:50 | |
| P-4 | 14.57 | | 4 | 5.02 | 12:25 | |
| P-9 | 13.90 | | 4 | 5.42 | 12:25 | |
| SMBRP-2 | 24.88 | | 2 | 6.02 | 11:22 | Vault flooded |
| SMBRP-6 | 23.45 | | 2 | 16.15 | 11:32 | |
| SMBRP-7B | 25.13 | | 2 | 12.54 | 11:45 | |
| SMBRP-8 (EC-RC-MW01) | 40.46 | | 4 | 28.15 | 10:26 | DTW taken on 5/19/21. Parked over on 5/17/21. |
| SMBRP-9 | 45.40 | | 2 | 37.5 | 10:15 | |
| SMBRP-10C | 25.00 | | N/A | N/A | - | Well has been removed |
| SMBRP-11 | 20.38 | | 2 | 8.35 | 09:59 | Missing one bolt |
| SMBRP-12 | 24.88 | 24.56 | 2 | 7.18 | 10:10 | |
| SMBRP-13 | 19.48 | 9.42 | 2 | 8.1 | 10:23 | Logger temporarily deployed at 1037am |
| SMBRP-15b | 16.77 | | 1 | N/A | - | Dry |
| SMBRP-16 | 25.00 | | 2 | 5.05 | 11:15 | |

# Depth to Groundwater Measurements

| | | | |
|---|---|---|---|
| **Job No:** | 20-09665 | **Event:** | June Monthly |
| **Project:** | Malibu CCWTF | **Date:** | June 9, 2021 |
| **Location:** | Malibu, CA | **Measured By:** | Peter Doran |

| Well ID | Total Well Depth (ft bTOC) | | Well Diameter (in) | Depth to Water (ft bTOC) | Time | Notes/ Well Condition |
|---|---|---|---|---|---|---|
| | Historical | Measured | | | | |
| C-1 | 14.50 | | N/A | 466 | 11:37 | 4inch well |
| C-2 | 14.20 | | 2 | 4.44 | 11:38 | 4 in |
| CCPE | 52.70 | | 2 | 5.45 | 10:57 | |
| CCPNE | 24.10 | | 2 | 6.2 | 11:00 | |
| CCPSW | 19.90 | | 2 | 6.13 | 11:08 | |
| CCW-4 | 12.30 | | 1 | 7.04 | 10:02 | |
| GH6-M1 | 35.20 | | 2 | 28.92 | 13:27 | |
| GH8-M3 | 40.21 | | 2 | 28.24 | 13:23 | |
| GH9-M4 | 44.29 | - | 2 | N/A | - | Well has been buried |
| Lagoon | N/A | - | N/A | N/A | - | Well has been removed |
| LAMW-5S | 73.43 | | 4 | 58.8 | 09:25 | |
| M6-1 | 45.30 | | 2 | 6.83 | 12:52 | |
| M6-2 | 19.40 | | 2 | 6.1 | 12:52 | |
| M7-1 | 39.35 | | 2 | 7.82 | 12:58 | |
| M7-2 | 19.60 | | 2 | 8.47 | 12:59 | |
| MBCMW-5 | 19.40 | 18.2 | N/A | | 13:04 | Dry |
| MBCMW-6 | 64.26 | - | N/A | N/A | - | Well has been removed |
| MBCMW-7 | 52.15 | | 2 | 11.46 | 09:50 | |
| MBCMW-8 | 11.95 | | 2 | 9.27 | 09:51 | |
| MBCMW-9 | 9.25 | | 2 | 8.86 | 10:09 | Shallow |
| MBCMW-10 | 51.75 | | 2 | 8.56 | 10:10 | |
| MCWP-MW01 | 152.88 | | 6 | 10.31 | 12:59 | |
| MCWP-MW02 | 148.20 | | 6 | 10.35 | 11:53 | |
| MCWP-MW03 | 136.65 | | 6 | 7.86 | 12:13 | |
| MCWP-MW04S | 20.45 | | 4 | 7.57 | 12:02 | |
| MCWP-MW04D | 149.20 | | 4 | 9.47 | 12:01 | |
| MCWP-MW05 | 154.40 | | 4 | 7.62 | 10:19 | |
| MCWP-MW06 | 138.15 | | 2 | 9.9 | 11:52 | |
| MCWP-MW07S | 17.22 | | 2 | 5.91 | 12:16 | |
| MCWP-MW07D | 129.60 | | 2 | 7.72 | 12:14 | |
| MCWP-MW08 | 79.38 | | 2 | 7.5 | 12:36 | |
| MCWP-MW09 | 89.60 | | 2 | 5.91 | 12:28 | |
| MCWP-MW10 | 22.23 | | 2 | 5.54 | 11:39 | |
| P-4 | 14.57 | | 4 | 4.43 | 10:47 | |
| P-9 | 13.90 | | 4 | 4.75 | 10:52 | |
| SMBRP-2 | 24.88 | | 2 | 5.73 | 10:41 | |
| SMBRP-6 | 23.45 | | 2 | 16.87 | 10:30 | |
| SMBRP-7B | 25.13 | | 2 | 12.78 | 10:19 | |
| SMBRP-8 (EC-RC-MW01) | 40.46 | | 4 | 28.22 | 09:39 | |
| SMBRP-9 | 45.40 | | 2 | 37.62 | 09:35 | |
| SMBRP-12 | 24.88 | | 2 | 6.91 | 12:28 | |
| SMBRP-13 | 19.48 | | 2 | 8.29 | 12:36 | |
| SMBRP-16 | 25.00 | | 2 | 5.38 | 09:56 | |
| SMBRP-11 | 20.38 | | 2 | 8.41 | 12:20 | |

# Groundwater Sampling/Purging Data Sheet

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project/Location:** Malibu CCWTF/Malibu, CA | **Date:** May 19, 2021 |
| **Observation Period**<br>**Start:** 09:10 **Stop:** 10:10 | **Well Name:** SMBRP-9 |
| **Sampled By:** Peter Doran | **Survey Reference Point:** TOC |

| **Purging Data** | | | |
|---|---|---|---|
| Type of Pump | Electric Submersible Pump | Pump Inlet Depth (ft) | 43 |
| Well Diameter (in) | 2 | Depth of Well (ft) | 44.88 |
| Initial/Static Depth to Water (ft) | 37.46 | Length of Water Column (ft) | 7.42 |
| Product Thickness (ft) | N/A | Volume Multiplier (gal/ft) | 0.16 |
| One Casing Volume (gal) | 1.19 | Three Casing Volumes (gal) | 3.57 |
| Purge Time Start | 09:15 | Purge Time Stop | 09:25 |
| Total Purge Time (min) | 10 | Purge Rate (gpm) | 0.36 |
| Purge Volume (gal) | 3.57 | Depth to Water (ft) at Sampling | 38.15 |

| **Casing or Borehole Volume** | |
|---|---|
| 0.5-inch Diameter = 0.010 gal/ft<br>0.75-inch Diameter = 0.023 gal/ft<br>1-inch Diameter = 0.041 gal/ft<br>1.5-inch Diameter = 0.092 gal/ft<br>2-inch Diameter = 0.16 gal/ft | 4-inch Diameter = 0.65 gal/ft<br>6-inch Diameter = 1.46 gal/ft<br>9-inch Diameter = 3.30 gal/ft<br>12-inch Diameter = 5.87 gal/ft<br>15-inch Diameter = 9.18 gal/ft |

| **Indicator Data** | | | | | | |
|---|---|---|---|---|---|---|
| Volume Pumped | Before Purge | Volume 2 (1.5 gal) | Volume 3 (3 gal) | Volume 4 (3.57 gal) | Volume 5 | At Sampling |
| Temperature (C) | 21.3 | 22.3 | 22.7 | 22.8 | | 22.4 |
| pH | 6.98 | 6.99 | 6.99 | 6.99 | | 7.1 |
| Conductivity (µs) | 2,101 | 2,206 | 2,263 | 2,256 | | 2,311 |
| Dissolved Oxygen (mg/L) | 2.55 | 2.3 | 2.01 | 1.7 | | 3.53 |
| Dissolved Oxygen (%) | 28.4 | 26.1 | 22.9 | 19.5 | | 40.9 |
| TDS (ppm) | 1,476 | 1,508 | 1,537 | 1,531 | | 1,502 |
| Turbidity (NTU) | 8,800 | 26.3 | 7.62 | 12.2 | | 37.99 |

| | |
|---|---|
| Depth to Water at End of Purge: 41.5 | Drawdown: 4.04 |

Comments:

| **Miscellaneous Data** |
|---|
| Condition of Traffic Box: Good |
| Drum Identification Labeling: N/A |
| Water Level Indicator: Solinst Model 101 |
| Weather Conditions: Overcast |
| Comments: |
| Sampled Time: 09:45 |
| Well Recovery Calculation<br>Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery<br>37.46 + 0.2 * 4.04 = 38.268 |

# Groundwater Sampling/Purging Data Sheet

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project/Location:** Malibu CCWTF/Malibu, CA | **Date:** May 19, 2021 |
| **Observation Period**<br>**Start:** 09:55 **Stop:** 12:45 | **Well Name:** MCWP-MW04D |
| **Sampled By:** Peter Doran | **Survey Reference Point:** TOC |

| **Purging Data** | | | |
|---|---|---|---|
| Type of Pump | Electric Submersible Pump | Pump Inlet Depth (ft) | 140 |
| Well Diameter (in) | 4 | Depth of Well (ft) | 145.18 |
| Initial/Static Depth to Water (ft) | 9.87 | Length of Water Column (ft) | 135.31 |
| Product Thickness (ft) | N/A | Volume Multiplier (gal/ft) | 0.65 |
| One Casing Volume (gal) | 87.95 | Three Casing Volumes (gal) | 263.85 |
| Purge Time Start | 09:55 | Purge Time Stop | 12:20 |
| Total Purge Time (min) | 145 | Purge Rate (gpm) | 1.8 |
| Purge Volume (gal) | 264 | Depth to Water (ft) at Sampling | 9.94 |

| **Casing or Borehole Volume** | |
|---|---|
| 0.5-inch Diameter = 0.010 gal/ft<br>0.75-inch Diameter = 0.023 gal/ft<br>1-inch Diameter = 0.041 gal/ft<br>1.5-inch Diameter = 0.092 gal/ft<br>2-inch Diameter = 0.16 gal/ft | 4-inch Diameter = 0.65 gal/ft<br>6-inch Diameter = 1.46 gal/ft<br>9-inch Diameter = 3.30 gal/ft<br>12-inch Diameter = 5.87 gal/ft<br>15-inch Diameter = 9.18 gal/ft |

| **Indicator Data** | | | | | | |
|---|---|---|---|---|---|---|
| Volume Pumped | Before Purge | Volume 2 (88 gal) | Volume 3 (176 gal) | Volume 4 (263.85 gal) | Volume 5 | At Sampling |
| Temperature (C) | 21.3 | 19.6 | 19.8 | 19.9 | | 19.9 |
| pH | 7.16 | 6.99 | 6.99 | 6.99 | | 6.99 |
| Conductivity (µs) | 2,268 | 2,231 | 2,231 | 2,233 | | 2,232 |
| Dissolved Oxygen (mg/L) | 4 | 0.04 | 0.1 | 0.11 | | 0.11 |
| Dissolved Oxygen (%) | 45.8 | 0.5 | 1.1 | 1.2 | | 1.2 |
| TDS (ppm) | 1,574 | 1,616 | 1,610 | 1,610 | | 1,607 |
| Turbidity (NTU) | 2.85 | 0.85 | 0.65 | 0.93 | | 0.8 |

| | |
|---|---|
| Depth to Water at End of Purge: 10.22 | Drawdown: 0.35 |

Comments:

| **Miscellaneous Data** |
|---|
| Condition of Traffic Box: Good |
| Drum Identification Labeling: N/A |
| Water Level Indicator: Solinst Model 101 |
| Weather Conditions: Overcast |
| Comments: |
| Sampled Time: 12:30 |
| Well Recovery Calculation<br>Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery<br>9.87 + 0.2 * 0.35 = 9.94 |

# Groundwater Sampling/Purging Data Sheet

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project/Location:** Malibu CCWTF/Malibu, CA | **Date:** May 18, 2021 |
| **Observation Period**<br>**Start:** 11:25 **Stop:** 12:30 | **Well Name:** MCWP-MW09 |
| **Sampled By:** Peter Doran | **Survey Reference Point:** TOC |

| **Purging Data** | | | |
|---|---|---|---|
| Type of Pump | Electric Submersible Pump | Pump Inlet Depth (ft) | 87 |
| Well Diameter (in) | 2 | Depth of Well (ft) | 89.05 |
| Initial/Static Depth to Water (ft) | 6.25 | Length of Water Column (ft) | 82.8 |
| Product Thickness (ft) | N/A | Volume Multiplier (gal/ft) | 0.16 |
| One Casing Volume (gal) | 13.25 | Three Casing Volumes (gal) | 39.75 |
| Purge Time Start | 11:33 | Purge Time Stop | 12:13 |
| Total Purge Time (min) | 40 | Purge Rate (gpm) | 1.0 |
| Purge Volume (gal) | 40.0 | Depth to Water (ft) at Sampling | 6.25 |

| **Casing or Borehole Volume** | |
|---|---|
| 0.5-inch Diameter = 0.010 gal/ft<br>0.75-inch Diameter = 0.023 gal/ft<br>1-inch Diameter = 0.041 gal/ft<br>1.5-inch Diameter = 0.092 gal/ft<br>2-inch Diameter = 0.16 gal/ft | 4-inch Diameter = 0.65 gal/ft<br>6-inch Diameter = 1.46 gal/ft<br>9-inch Diameter = 3.30 gal/ft<br>12-inch Diameter = 5.87 gal/ft<br>15-inch Diameter = 9.18 gal/ft |

| **Indicator Data** | | | | | | |
|---|---|---|---|---|---|---|
| Volume Pumped | Before Purge | Volume 2 (13.5 gal) | Volume 3 (26.5 gal) | Volume 4 (39.75 gal) | Volume 5 | At Sampling |
| Temperature (C) | 21.4 | 21.4 | 21.4 | 21.4 | | 21.4 |
| pH | 7 | 7 | 7.01 | 7.01 | | 7.01 |
| Conductivity (µs) | 4,146 | 4,131 | 4,117 | 4,115 | | 4,119 |
| Dissolved Oxygen (mg/L) | 0.03 | 0.06 | 0.06 | 0.09 | | 0.09 |
| Dissolved Oxygen (%) | 0.3 | 0.7 | 0.7 | 1 | | 1 |
| TDS (ppm) | 2,893 | 2,884 | 2,881 | 2,880 | | 2,871 |
| Turbidity (NTU) | 1.44 | 2.11 | 2.45 | 1.07 | | 1.48 |

| | |
|---|---|
| Depth to Water at End of Purge: 6.25 | Drawdown: 0 |

Comments:

| **Miscellaneous Data** |
|---|
| Condition of Traffic Box: Missing bolt |
| Drum Identification Labeling: N/A |
| Water Level Indicator: Solinst Model 101 |
| Weather Conditions: Partly cloudy |
| Comments: |
| Sampled Time: 12:15 |
| Well Recovery Calculation<br>Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery<br>6.25 + 0.2 * 0 = 6.25 |

# Groundwater Sampling/Purging Data Sheet

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project/Location:** Malibu CCWTF/Malibu, CA | **Date:** May 18, 2021 |
| **Observation Period**<br>**Start:** 11:15 **Stop:** 12:00 | **Well Name:** SMBRP-12 |
| **Sampled By:** Peter Doran | **Survey Reference Point:** TOC |

| **Purging Data** | | | |
|---|---|---|---|
| Type of Pump | Electric Submersible Pump | Pump Inlet Depth (ft) | 24 |
| Well Diameter (in) | 2 | Depth of Well (ft) | 24.68 |
| Initial/Static Depth to Water (ft) | 7.22 | Length of Water Column (ft) | 17.46 |
| Product Thickness (ft) | N/A | Volume Multiplier (gal/ft) | 0.16 |
| One Casing Volume (gal) | 2.79 | Three Casing Volumes (gal) | 8.37 |
| Purge Time Start | 11:20 | Purge Time Stop | 11:35 |
| Total Purge Time (min) | 14 | Purge Rate (gpm) | 0.6 |
| Purge Volume (gal) | 8.37 | Depth to Water (ft) at Sampling | 7.25 |

| **Casing or Borehole Volume** | |
|---|---|
| 0.5-inch Diameter = 0.010 gal/ft<br>0.75-inch Diameter = 0.023 gal/ft<br>1-inch Diameter = 0.041 gal/ft<br>1.5-inch Diameter = 0.092 gal/ft<br>2-inch Diameter = 0.16 gal/ft | 4-inch Diameter = 0.65 gal/ft<br>6-inch Diameter = 1.46 gal/ft<br>9-inch Diameter = 3.30 gal/ft<br>12-inch Diameter = 5.87 gal/ft<br>15-inch Diameter = 9.18 gal/ft |

| **Indicator Data** | | | | | | |
|---|---|---|---|---|---|---|
| Volume Pumped | Before Purge | Volume 2 (3 gal) | Volume 3 (6 gal) | Volume 4 (8.5 gal) | Volume 5 | At Sampling |
| Temperature (C) | 22.1 | 22.3 | 22.8 | 22.9 | | 23.3 |
| pH | 6.87 | 6.83 | 6.84 | 6.84 | | 6.92 |
| Conductivity (µs) | 4,136 | 4,285 | 4,333 | 4,315 | | 3,564 |
| Dissolved Oxygen (mg/L) | 2.37 | 2.31 | 302 | 2.2 | | 3.19 |
| Dissolved Oxygen (%) | 27.8 | 26.2 | 35.1 | 25.8 | | 37.7 |
| TDS (ppm) | 2,856 | 2,938 | 2,942 | 2,925 | | 2,393 |
| Turbidity (NTU) | 2,006 | 12.37 | 4.58 | 6.98 | | 19.4 |

| | |
|---|---|
| Depth to Water at End of Purge: 7.25 | Drawdown: 0.03 |

Comments:

| **Miscellaneous Data** |
|---|
| Condition of Traffic Box: Good |
| Drum Identification Labeling: N/A |
| Water Level Indicator: Solinst Model 101 |
| Weather Conditions: Partly Cloudy |
| Comments: |
| Sampled Time: 11:45 |
| Well Recovery Calculation<br>Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery<br>7.22 + 0.2 * 0.03 = 7.226 |

# Groundwater Sampling/Purging Data Sheet

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project/Location:** Malibu CCWTF/Malibu, CA | **Date:** May 18, 2021 |
| **Observation Period**<br>**Start:** 09:40 **Stop:** 11:05 | **Well Name:** MCWP-MW07D |
| **Sampled By:** Peter Doran | **Survey Reference Point:** TOC |

| **Purging Data** | | | |
|---|---|---|---|
| Type of Pump | Electric Submersible Pump | Pump Inlet Depth (ft) | 122 |
| Well Diameter (in) | 2 | Depth of Well (ft) | 127.93 |
| Initial/Static Depth to Water (ft) | 8.4 | Length of Water Column (ft) | 119.53 |
| Product Thickness (ft) | N/A | Volume Multiplier (gal/ft) | 0.16 |
| One Casing Volume (gal) | 19.12 | Three Casing Volumes (gal) | 57.36 |
| Purge Time Start | 09:52 | Purge Time Stop | 10:42 |
| Total Purge Time (min) | 50 | Purge Rate (gpm) | 1.2 |
| Purge Volume (gal) | 57.5 | Depth to Water (ft) at Sampling | 8.4 |

| **Casing or Borehole Volume** | |
|---|---|
| 0.5-inch Diameter = 0.010 gal/ft<br>0.75-inch Diameter = 0.023 gal/ft<br>1-inch Diameter = 0.041 gal/ft<br>1.5-inch Diameter = 0.092 gal/ft<br>2-inch Diameter = 0.16 gal/ft | 4-inch Diameter = 0.65 gal/ft<br>6-inch Diameter = 1.46 gal/ft<br>9-inch Diameter = 3.30 gal/ft<br>12-inch Diameter = 5.87 gal/ft<br>15-inch Diameter = 9.18 gal/ft |

| **Indicator Data** | | | | | | |
|---|---|---|---|---|---|---|
| Volume Pumped | Before Purge | Volume 2 (19.5 gal) | Volume 3 (38 gal) | Volume 4 (57.36 gal) | Volume 5 | At Sampling |
| Temperature (C) | 21.2 | 21.6 | 21.7 | 21.8 | | 21.7 |
| pH | 7.05 | 7.02 | 7.02 | 7.04 | | 7 |
| Conductivity (µs) | 2,036 | 2,166 | 2,131 | 2,114 | | 2,159 |
| Dissolved Oxygen (mg/L) | 0.17 | 0.02 | 0.06 | 0.08 | | 0.06 |
| Dissolved Oxygen (%) | 2 | 2 | 0.7 | 0.9 | | 0.7 |
| TDS (ppm) | 1,431 | 1,505 | 1,486 | 1,460 | | 1,487 |
| Turbidity (NTU) | 7.06 | 2.68 | 1.59 | 1.46 | | 1.99 |

| | |
|---|---|
| Depth to Water at End of Purge: 8.4 | Drawdown: 0 |

Comments:

| **Miscellaneous Data** |
|---|
| Condition of Traffic Box: Missing Bolts |
| Drum Identification Labeling: N/A |
| Water Level Indicator: Solinst Model 101 |
| Weather Conditions: Partly cloudy |
| Comments: |
| Sampled Time: 10:50 |
| Well Recovery Calculation<br>Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery<br>8.4 + 0.2 * 0 = 8.4 |

# Groundwater Sampling/Purging Data Sheet

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project/Location:** Malibu CCWTF/Malibu, CA | **Date:** May 18, 2021 |
| **Observation Period**<br>**Start:** 11:50 **Stop:** 13:00 | **Well Name:** MCWP-MW04S |
| **Sampled By:** Peter Doran | **Survey Reference Point:** TOC |

| **Purging Data** | | | |
|---|---|---|---|
| Type of Pump | Electric Submersible Pump | Pump Inlet Depth (ft) | 19 |
| Well Diameter (in) | 4 | Depth of Well (ft) | 20.27 |
| Initial/Static Depth to Water (ft) | 7.23 | Length of Water Column (ft) | 13.04 |
| Product Thickness (ft) | N/A | Volume Multiplier (gal/ft) | 0.65 |
| One Casing Volume (gal) | 8.48 | Three Casing Volumes (gal) | 25.44 |
| Purge Time Start | 11:50 | Purge Time Stop | 12:06 |
| Total Purge Time (min) | 16 | Purge Rate (gpm) | 0.5 |
| Purge Volume (gal) | 13.0 | Depth to Water (ft) at Sampling | 10.55 * |

| **Casing or Borehole Volume** | |
|---|---|
| 0.5-inch Diameter = 0.010 gal/ft<br>0.75-inch Diameter = 0.023 gal/ft<br>1-inch Diameter = 0.041 gal/ft<br>1.5-inch Diameter = 0.092 gal/ft<br>2-inch Diameter = 0.16 gal/ft | 4-inch Diameter = 0.65 gal/ft<br>6-inch Diameter = 1.46 gal/ft<br>9-inch Diameter = 3.30 gal/ft<br>12-inch Diameter = 5.87 gal/ft<br>15-inch Diameter = 9.18 gal/ft |

| **Indicator Data** | | | | | | |
|---|---|---|---|---|---|---|
| Volume Pumped | Before Purge | Volume 2 (8.5 gal) | Volume 3 (13 gal) | Volume 4 | Volume 5 | At Sampling |
| Temperature (C) | 21.6 | 21.6 | | | | 21.9 |
| pH | 7.29 | 7.25 | | | | 7.25 |
| Conductivity (µs) | 9,764 | 7,420 | | | | 6,412 |
| Dissolved Oxygen (mg/L) | 0.98 | 2.48 | | | | 7.95 |
| Dissolved Oxygen (%) | 11.5 | 28.9 | | | | 92.7 |
| TDS (ppm) | 6,784 | 5,162 | | | | 4,432 |
| Turbidity (NTU) | 34.7 | 68.2 | | | | 2.4 |

| | |
|---|---|
| Depth to Water at End of Purge: 20.25 | Drawdown: 13.02 |

Comments: Well dewatered

| **Miscellaneous Data** |
|---|
| Condition of Traffic Box: |
| Drum Identification Labeling: N/A |
| Water Level Indicator: Solinst Model 101 |
| Weather Conditions: Partly cloudy |
| Comments: Well dewatered at 13 gallons removed – returned following day to sample |
| Sampled Time: 12:45 |
| Well Recovery Calculation<br>Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery<br>7.23 + 0.2 * 13.02 = 9.834 * well did not recover after over 24hrs |

# Groundwater Sampling/Purging Data Sheet

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project/Location:** Malibu CCWTF/Malibu, CA | **Date:** May 18, 2021 |
| **Observation Period**<br>**Start:** 09:30 **Stop:** 10:30 | **Well Name:** MCWP-MW07S |
| **Sampled By:** Peter Doran | **Survey Reference Point:** TOC |

| **Purging Data** | | | |
|---|---|---|---|
| Type of Pump | Electric Submersible | Pump Inlet Depth (ft) | 16 |
| Well Diameter (in) | 2 | Depth of Well (ft) | 17.2 |
| Initial/Static Depth to Water (ft) | 5.89 | Length of Water Column (ft) | 11.31 |
| Product Thickness (ft) | N/A | Volume Multiplier (gal/ft) | 0.16 |
| One Casing Volume (gal) | 1.8 | Three Casing Volumes (gal) | 5.4 |
| Purge Time Start | 0931 | Purge Time Stop | 0937 |
| Total Purge Time (min) | 6 | Purge Rate (gpm) | 0.5 |
| Purge Volume (gal) | 3.5 | Depth to Water (ft) at Sampling | 6.43 |

| **Casing or Borehole Volume** | |
|---|---|
| 0.5-inch Diameter = 0.010 gal/ft<br>0.75-inch Diameter = 0.023 gal/ft<br>1-inch Diameter = 0.041 gal/ft<br>1.5-inch Diameter = 0.092 gal/ft<br>2-inch Diameter = 0.16 gal/ft | 4-inch Diameter = 0.65 gal/ft<br>6-inch Diameter = 1.46 gal/ft<br>9-inch Diameter = 3.30 gal/ft<br>12-inch Diameter = 5.87 gal/ft<br>15-inch Diameter = 9.18 gal/ft |

| **Indicator Data** | | | | | | |
|---|---|---|---|---|---|---|
| Volume Pumped | Before Purge | Volume 2 (2.0 gal) | Volume 3 (3.5 gal) | Volume 4 | Volume 5 | At Sampling |
| Temperature (C) | 19.0 | 19.4 | 19.6 | | | 19.9 |
| pH | 7.02 | 7.04 | 7.03 | | | 7.16 |
| Conductivity (µs) | 1967 | 2028 | 1952 | | | 1939 |
| Dissolved Oxygen (mg/L) | 2.84 | 2.96 | 2.8 | | | 5.83 |
| Dissolved Oxygen (%) | 30.4 | 32.0 | 30.7 | | | 64.7 |
| TDS (ppm) | 1443 | 1476 | 1414 | | | 1394 |
| Turbidity (NTU) | - | 44.27 | 13.72 | | | 44.5 |

| | |
|---|---|
| Depth to Water at End of Purge: 17.0 | Drawdown: 11.11 |

Comments: Well Dewatered at 3.5 gallons

| **Miscellaneous Data** |
|---|
| Condition of Traffic Box: Missing bolt |
| Drum Identification Labeling: N/A |
| Water Level Indicator: Solinst Model 101 |
| Weather Conditions: Overcast |
| Comments: |
| Sampled Time: 10:15 |
| Well Recovery Calculation<br>Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery<br>37.5 + 0.2 * = 8.11 |

# Surface Water Sampling

| | |
|---|---|
| **Job No:** 20-09665 | **Event:** Second Quarter |
| **Project:** Malibu CCWTF | **Date:** May 18, 2021 |
| **Location:** Malibu, CA | **Sampled By:** Jaime Grunden |

## CONDITIONS

| | |
|---|---|
| **Weather:** Overcast | **Wind:** Slight Breeze |
| **Estuary Berm:** Closed | |

## DAILY TIDES

| | | | | | |
|---|---|---|---|---|---|
| **LOW** | Time: 09:34 | Feet: 1.74 | **HIGH** | Time: 17:46 | Feet: 4.95 |

## VISUAL OBSERVATIONS

| Location | Time | Sea State | Water Clarity | Water Color | Odors | Floatables | Birds/Wildlife |
|---|---|---|---|---|---|---|---|
| | | | | | | | Type,<br># On Land<br># In Water |
| N-001 | 11:00 | Rough | Clear | Clear | None | None | N/A |
| N-002 | 11:10 | Rough | Clear | Clear | None | None | N/A |
| N-003 | 11:25 | Rough | Clear | Clear | None | None | N/A |
| N-004 | 10:25 | Rough | Clear | Clear | None | None | N/A |
| L-001 | 12:20 | Calm | Clear | Clear | None | None | Canadian geese, 0, 4 |
| L-002 | 12:40 | Calm | Clear | Clear | None | None | N/A |
| L-003 | 12:30 | Calm | Clear | Clear | None | None | Mallard, 0, 2 |
| L-004 | 12:05 | Calm | Clear | Clear | None | None | Mallard, 0, 3 |
| L-005 | 11:30 | Calm | Clear | Clear | None | None | Terns, 100, 0<br>Cormorant, 1, 0<br>Western gull, 10, 0 |
| L-006 | 11:50 | Calm | Clear | Clear | None | None | American coot, 0, 1<br>Mallard, 0, 3 |

# Appendix B

Analytical Laboratory Reports

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

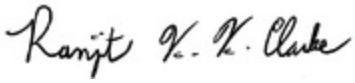
Lab Job Number: 445526
Report Level: II
Report Date: 05/28/2021

**Analytical Report** *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Malibu - Quarterly/Semi-Annual

*Authorized for release by:*



Ranjit K Clarke, Project Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

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# Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 445526
Project No: MALIBU
Location: Malibu - Quarterly/Semi-Annual
Date Received: 05/18/21

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| SMBRP-12 | 445526-001 | 05/18/21 11:45 | Water |
| MCWP-MW04S | 445526-002 | 05/18/21 12:45 | Water |
| MCWP-MW07S | 445526-003 | 05/18/21 10:15 | Water |
| MCWP-MW07D | 445526-004 | 05/18/21 10:50 | Water |
| MCWP-MW09 | 445526-005 | 05/18/21 12:15 | Water |

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# Case Narrative

| | |
|---|---|
| Rincon Consultants - Ventura<br>180 North Ashwood Ave.<br>Ventura, CA 93003<br>Kiernan Brtalik | Lab Job Number: 445526<br>Project No: MALIBU<br>Location: Malibu - Quarterly/Semi-Annual<br>Date Received: 05/18/21 |

This data package contains sample and QC results for five water samples, requested for the above referenced project on 05/18/21. The samples were received cold and intact.

**Metals (EPA 200.7):**
No analytical problems were encountered.

**Ion Chromatography (EPA 300.0):**
Chloride was detected between the MDL and the RL in the method blank for batch 267352; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

**Total Carbon by High-Temperature Combust (SM 5310B):**
No analytical problems were encountered.

**Total Phosphorus as P (SM 4500-P-B5-E):**
No analytical problems were encountered.

**Total Oil & Grease (HEM) (EPA 1664A):**
No analytical problems were encountered.

**Total Nitrogen, by Calculation (TOTAL NITROGEN):**
No analytical problems were encountered.

**Organic Nitrogen, by Calculation (ORGANIC NITROGEN):**
No analytical problems were encountered.

**Total Dissolved Solids (TDS) (SM2540C):**
No analytical problems were encountered.

**Total Suspended Solids (TSS) (SM2540D):**
No analytical problems were encountered.

**Free Chlorine (SM 4500-CL-G):**
No analytical problems were encountered.

**pH of Aqueous Samples (SM 4500-H+ B):**
No analytical problems were encountered.

**Soluble Biochemical Oxygen Demand (SM5210B):**
No analytical problems were encountered.

**Odor (SM 2150B):**
No analytical problems were encountered.

**Turbidity (SM2130B):**
No analytical problems were encountered.

**Color by Visual Comparison (SM2120B):**
No analytical problems were encountered.

**Surfactants (MBAS) (SM5540C):**
No analytical problems were encountered.

**Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):**
No analytical problems were encountered.

**Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):**
Low recovery was observed for nitrogen, total kjeldahl in the MSD of SMBRP-12 (lab # 445526-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

| ENTHALPHY ANALYTICAL, INC. | | Chain of Custody Record | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 931 W. Barkley Ave., Orange, CA 92868 | | Lab No: 445526 | | Turn Around Time (Rush by advanced notice only) | | | | | | | |
| Phone: (714) 771-6900 Fax: (714) 538-1209 | | Page: 1 of 1 | | Standard: | X | 4 Day: | | 3 Day: | | | |
| Billing: Enthalpy - SoCal | | Matrix: A = Air DW = Drinking Water | | 2 Day: | | 1 Day: | | Same Day: | | | |
| c/o Montrose Environmental Group | | FL = Food Liquid FS = Food Solid L = Liquid | | Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = $HNO_3$ | | | | | | | |
| 1 Park Plaza, Suite 1000, Irvine, CA 92614 | | PP = Pure Product S = Solid SeaW = Sea Water | | 4 = $H_2SO_4$ 5 = NaOH 6 = Other | | | | | | | |
| | | SW = Swab W = Water WP = Wipe O = Other | | | | | | | | | |

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | Rincon Consultants | Name: | Malibu - Quarterly/Semi-Annual |
| Report To: | Kiernan Brtalik | Number: | |
| Email: | | P.O. #: | 20-096GS |
| Address: | 180 N. Ashwood Ave. | Address: | |
| | Ventura, CA 93003 | | |
| Phone: | | Global ID: | |
| Cell: | | Sampled By: | |

| Sample ID | Sampling Date | Sampling Time | Matrix | Container No. / Size | Pres. | Total /Fecal Coliforms - SM 9223 Quantitray | EPA 200.7 (B) | EPA 300.0: Cl,NO2,NO3,SO4 | TKN; NH3; Phosphorus | SM 5310C TOC; BOD; TSS; TDS | pH; Residual Cl; MBAS; Turbidity; Color; Odor | EPA 1664A Oil & Grease | Organic Nitrogen, Total Nitrogen | | | Test Instructions / Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~SMBRP-9~~ | | | | | | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | | | ~~MC~~ |
| SMBRP-12 | 5/18/2021 | 1145 | W | | | X | X | X | X | X | X | X | X | | | |
| MCWP-MW04S | 5/18/2021 | 1245 | W | | | X | X | X | X | X | X | X | X | | | |
| ~~MCWP-MW04D~~ | | | | | | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | | | ~~MC~~ |
| MCWP-MW07S | 5/18/2021 | 1015 | W | | | X | X | X | X | X | X | X | X | | | |
| MCWP-MW07D | 5/18/2021 | 1050 | W | | | X | X | X | X | X | X | X | X | | | |
| MCWP-MW09 | 5/18/2021 | 1215 | W | | | X | X | X | X | X | X | X | X | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

3.1 / 9.6
4.2 / 2.9
5.1 / 2.3
6.3 / 1.2

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| [1] Relinquished By: | | MICHELLE CARTER | RINCON CONSULTANTS | 5/18/21 / 1338 |
| [1] Received By: | | David Tran | Enthalpy | 5/18/21 / 1:41 PM |
| [2] Relinquished By: | | David Tran | Enthalpy | 5/18/21 17:05 |
| [2] Received By: | | Elizabeth Ramirez | EA | 5/19/21 17:05. |
| [3] Relinquished By: | | | | |
| [3] Received By: | | | | |

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# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: Rincon Consultants  Project: Malibu-Quarterly/Semi-Annual

Date Received: 5/18/2021  Sampler's Name Present: ☑ Yes ☐ No

**Section 2**

Sample(s) received in a cooler? ☑ Yes, How many? 4 ☐ No (skip section 2)  Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 9.6 #2: 4.2 #3: 5.1 #4: 6.3

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.1 #2: 2.9 #3: 2.3 #4: 1.2

| Section 4 | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✔ | | |
| Are sample IDs present? | ✔ | | |
| Are sampling dates & times present? | ✔ | | |
| Is a relinquished signature present? | ✔ | | |
| Are the tests required clearly indicated on the COC? | ✔ | | |
| Are custody seals present? | | ✔ | |
| If custody seals are present, were they intact? | | | ✔ |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | ✔ | | |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✔ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✔ | | |
| Were the samples collected in the correct containers for the required tests? | ✔ | | |
| Are the containers labeled with the correct preservatives? | ✔ | | |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✔ |
| Was a sufficient amount of sample submitted for the requested tests? | ✔ | | |

**Section 5** Explanations/Comments

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 5/18/2021

# Enthalpy Analytical Field Technician Request Form

Version # 2.7
Effective 9/10/15

## Client Info

| | |
|---|---|
| Client Name: | Rincon Consultants |
| Address: | 180 N. Ashwood Ave. |
| City: | Ventura |
| Ordered By: | Kiernan |
| Client Project Manager: | Kiernan |
| Phone: | 516 468 9695 |
| Email: | |

## Site Info

| | |
|---|---|
| Address: | 3900 Cross Creek Rd. |
| City: | Malibu |
| Site Contact: | Michelle Carter |
| Phone: | 805-450-1679 (cell) |
| 2nd Site Contact: | Nico Navarro |
| Phone: | 805-223-5066 |

## Request Completed By

| | |
|---|---|
| Enthalpy Contact: | RKC |
| Date / Time: | 05/03/21 |

| | | | | | |
|---|---|---|---|---|---|
| **Date(s) Needed:** | 05/18/21 | | | | |
| Before: | | After: | 14:30 | Between: | |
| Assigned Field Technician: | | | | | |
| Arrival Time: | | Leave Time: | | | |
| **Pick Up** | ✓ | **Delivery** | | | |

## Micro Sampling

| | | | | | |
|---|---|---|---|---|---|
| 1st Day: | | Sampling Time: | | # of samples: | |
| 2nd Day: | | Sampling Time: | | # of samples: | |
| Verbal Notification required (ASAP): | | | | | |
| Primary Notification Contact Info: | | | | | |
| Secondary Notification Contact Info: | | | | | |
| Analysis: | | | | | |

## Water/Soil Sampling

| | | | | | |
|---|---|---|---|---|---|
| ISCO: | | Soil: | | Water: | |
| Meter readings (ISCO): | | # of samples: | | | |
| Analysis: | | | | | |

## Sampling Notes

| | | | | | |
|---|---|---|---|---|---|
| TAT: | | Return ASAP: | | Return by: | |

Comments/Instructions:

- p/u samples in the Wells Fargo parking lot.

- Additional contact: Peter Doran - (805) 223-5842

| **Enthalpy Coordinator Use Only** | | **Enthalpy PM Use Only** | |
|---|---|---|---|
| Request Approved: | | ☑ Emailed ☐ Phoned ☐ No Notification | |
| Alternate Date/Time proposed: | | Client contact notified: | Peter |
| Request Denied: | | | |
| Name / Signature: | | Name / Signature: | RKC |
| Date/Time: | | Date/Time: | 05/03/21 |

*Please initial and date any changes.*

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# Analysis Results for 445526

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 445526
Project No: MALIBU
Location: Malibu - Quarterly/Semi-Annual
Date Received: 05/18/21

**Sample ID: SMBRP-12** **Lab ID: 445526-001** **Collected: 05/18/21 11:45**
**Matrix: Water**

| 445526-001 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 1664A<br>Prep Method: METHOD | | | | | | | | | | |
| Total Oil and Grease | ND | | mg/L | 5.6 | 1.6 | 1.1 | 267438 | 05/19/21 | 05/19/21 | ECC |
| Method: EPA 200.7<br>Prep Method: EPA 200.7 | | | | | | | | | | |
| Boron | **0.66** | | mg/L | 0.050 | 0.0080 | 1 | 267372 | 05/19/21 | 05/19/21 | SBW |
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Chloride | **300** | | mg/L | 50 | 5.0 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 01:16 | RKV |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 1 | 267352 | 05/18/21 21:00 | 05/18/21 23:18 | RKV |
| Nitrogen, Nitrate | **0.42** | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/18/21 23:18 | RKV |
| Sulfate | **320** | | mg/L | 10 | 2.5 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 01:16 | RKV |
| Method: EPA 351.2<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | **5.5** | | mg/L | 0.40 | 0.030 | 1 | 267667 | 05/25/21 | 05/25/21 | ATP |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.70** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 2150B | | | | | | | | | | |
| Odor | ND | | TON | 1.0 | | 1 | 267393 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM 4500-CL-G | | | | | | | | | | |
| Chlorine, Total Residual | ND | H | mg/L | 0.10 | 0.042 | 1 | 267417 | 05/19/21 17:36 | 05/19/21 17:36 | WWC |
| Method: SM 4500-H+ B | | | | | | | | | | |
| pH | **7.13** | H | SU | | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Temperature | **22.10** | H | deg C | 1.00 | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **4.8** | | mg/L | 0.20 | 0.020 | 2 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **1.0** | | mg/L | 0.10 | 0.050 | 5 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 5310B | | | | | | | | | | |



Results for any subcontracted analyses are not included in this section.

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# Analysis Results for 445526

| 445526-001 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | **8.5** | | mg/L | 1.0 | 0.18 | 1 | 267515 | 05/20/21 | 05/20/21 | ATP |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **170** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Method: SM2120B | | | | | | | | | | |
| Color | ND | | ColorUnits | 5 | | 1 | 267394 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2130B | | | | | | | | | | |
| Turbidity | **29** | | NTU | 0.10 | 0.07 | 1 | 267392 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2540C<br>Prep Method: METHOD | | | | | | | | | | |
| Total Dissolved Solids | **1,700** | | mg/L | 20 | | 2 | 267557 | 05/21/21 | 05/22/21 | WWC |
| Method: SM2540D<br>Prep Method: METHOD | | | | | | | | | | |
| Total Suspended Solids | **39** | | mg/L | 0.7 | | 1.3 | 267547 | 05/20/21 | 05/20/21 | ATP |
| Method: SM5210B<br>Prep Method: METHOD | | | | | | | | | | |
| Biochemical Oxygen Demand | **9.4** | | mg/L | 3.0 | | 1 | 267404 | 05/19/21 10:15 | 05/24/21 10:05 | MMP |
| Method: SM5540C | | | | | | | | | | |
| Surfactants (MBAS) | **0.81** | | mg/L | 0.040 | 0.027 | 1 | 267518 | 05/20/21 10:00 | 05/20/21 12:54 | ATP |
| Method: TOTAL NITROGEN | | | | | | | | | | |
| Total Nitrogen | **5.9** | | mg/L | | | 1 | 267776 | 05/26/21 | 05/26/21 | SLL |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| Sample ID: MCWP-MW04S | Lab ID: 445526-002 | Collected: 05/18/21 12:45 |
|---|---|---|
| | Matrix: Water | |

| 445526-002 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 1664A<br>Prep Method: METHOD | | | | | | | | | | |
| Total Oil and Grease | **2.2** | J | mg/L | 5.6 | 1.6 | 1.1 | 267438 | 05/19/21 | 05/19/21 | ECC |
| Method: EPA 200.7<br>Prep Method: EPA 200.7 | | | | | | | | | | |
| Boron | **1.9** | | mg/L | 0.050 | 0.0080 | 1 | 267372 | 05/19/21 | 05/19/21 | SBW |
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Chloride | **540** | | mg/L | 50 | 5.0 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 01:39 | RKV |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 1 | 267352 | 05/18/21 21:00 | 05/18/21 23:42 | RKV |
| Nitrogen, Nitrate | **1.2** | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/18/21 23:42 | RKV |
| Sulfate | **2,700** | | mg/L | 50 | 13 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 13:23 | RKV |
| Method: EPA 351.2<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | **0.56** | | mg/L | 0.40 | 0.030 | 1 | 267667 | 05/25/21 | 05/25/21 | ATP |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.56** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 2150B | | | | | | | | | | |
| Odor | ND | | TON | 1.0 | | 1 | 267393 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM 4500-CL-G | | | | | | | | | | |
| Chlorine, Total Residual | ND | H | mg/L | 0.10 | 0.042 | 1 | 267417 | 05/19/21 17:36 | 05/19/21 17:36 | WWC |
| Method: SM 4500-H+ B | | | | | | | | | | |
| pH | **7.58** | H | SU | | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Temperature | **22.40** | H | deg C | 1.00 | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.35** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 5310B | | | | | | | | | | |
| Total Organic Carbon | **19** | | mg/L | 1.0 | 0.18 | 1 | 267515 | 05/20/21 | 05/20/21 | ATP |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| 445526-002 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Coliform, Total | **610** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Method: SM2120B | | | | | | | | | | |
| Color | ND | | ColorUnits | 5 | | 1 | 267394 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2130B | | | | | | | | | | |
| Turbidity | **2.9** | | NTU | 0.10 | 0.07 | 1 | 267392 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2540C<br>Prep Method: METHOD | | | | | | | | | | |
| Total Dissolved Solids | **4,800** | | mg/L | 20 | | 2 | 267557 | 05/21/21 | 05/22/21 | WWC |
| Method: SM2540D<br>Prep Method: METHOD | | | | | | | | | | |
| Total Suspended Solids | **1.6** | | mg/L | 0.5 | | 1.1 | 267547 | 05/20/21 | 05/20/21 | ATP |
| Method: SM5210B<br>Prep Method: METHOD | | | | | | | | | | |
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 1 | 267404 | 05/19/21 10:17 | 05/24/21 10:05 | MMP |
| Method: SM5540C | | | | | | | | | | |
| Surfactants (MBAS) | **0.066** | | mg/L | 0.040 | 0.027 | 1 | 267518 | 05/20/21 10:00 | 05/20/21 12:54 | ATP |
| Method: TOTAL NITROGEN | | | | | | | | | | |
| Total Nitrogen | **1.8** | | mg/L | | | 1 | 267776 | 05/26/21 | 05/26/21 | SLL |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| Sample ID: MCWP-MW07S | Lab ID: 445526-003 | Collected: 05/18/21 10:15 |
|---|---|---|
| | Matrix: Water | |

| 445526-003 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 1664A<br>Prep Method: METHOD | | | | | | | | | | |
| Total Oil and Grease | ND | | mg/L | 5.6 | 1.6 | 1.1 | 267438 | 05/19/21 | 05/19/21 | ECC |
| Method: EPA 200.7<br>Prep Method: EPA 200.7 | | | | | | | | | | |
| Boron | **0.39** | | mg/L | 0.050 | 0.0080 | 1 | 267372 | 05/19/21 | 05/19/21 | SBW |
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Chloride | **190** | | mg/L | 50 | 5.0 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 02:50 | RKV |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 00:05 | RKV |
| Nitrogen, Nitrate | **4.5** | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 00:05 | RKV |
| Sulfate | **250** | | mg/L | 10 | 2.5 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 02:50 | RKV |
| Method: EPA 351.2<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | ND | | mg/L | 0.40 | 0.030 | 1 | 267667 | 05/25/21 | 05/25/21 | ATP |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | ND | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 2150B | | | | | | | | | | |
| Odor | ND | | TON | 1.0 | | 1 | 267393 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM 4500-CL-G | | | | | | | | | | |
| Chlorine, Total Residual | ND | H | mg/L | 0.10 | 0.042 | 1 | 267417 | 05/19/21 17:36 | 05/19/21 17:36 | WWC |
| Method: SM 4500-H+ B | | | | | | | | | | |
| pH | **7.46** | H | SU | | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Temperature | **22.40** | H | deg C | 1.00 | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/27/21 | 05/27/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.26** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 5310B | | | | | | | | | | |
| Total Organic Carbon | ND | | mg/L | 1.0 | 0.18 | 1 | 267515 | 05/20/21 | 05/20/21 | ATP |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **1.0** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| 445526-003 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Coliform, Total | **110** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Method: SM2120B | | | | | | | | | | |
| Color | ND | | ColorUnits | 5 | | 1 | 267394 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2130B | | | | | | | | | | |
| Turbidity | **4.3** | | NTU | 0.10 | 0.07 | 1 | 267392 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2540C<br>Prep Method: METHOD | | | | | | | | | | |
| Total Dissolved Solids | **1,100** | | mg/L | 20 | | 2 | 267557 | 05/21/21 | 05/22/21 | WWC |
| Method: SM2540D<br>Prep Method: METHOD | | | | | | | | | | |
| Total Suspended Solids | **3.8** | | mg/L | 0.5 | | 1.1 | 267547 | 05/20/21 | 05/20/21 | ATP |
| Method: SM5210B<br>Prep Method: METHOD | | | | | | | | | | |
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 1 | 267404 | 05/19/21 10:19 | 05/24/21 10:05 | MMP |
| Method: SM5540C | | | | | | | | | | |
| Surfactants (MBAS) | **0.072** | | mg/L | 0.040 | 0.027 | 1 | 267518 | 05/20/21 10:00 | 05/20/21 12:54 | ATP |
| Method: TOTAL NITROGEN | | | | | | | | | | |
| Total Nitrogen | **4.5** | | mg/L | | | 1 | 267776 | 05/26/21 | 05/26/21 | SLL |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| Sample ID: MCWP-MW07D | Lab ID: 445526-004 | Collected: 05/18/21 10:50 |
|---|---|---|
| | Matrix: Water | |

| 445526-004 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 1664A<br>Prep Method: METHOD | | | | | | | | | | |
| Total Oil and Grease | **2.7** | J | mg/L | 5.6 | 1.6 | 1.1 | 267438 | 05/19/21 | 05/19/21 | ECC |
| Method: EPA 200.7<br>Prep Method: EPA 200.7 | | | | | | | | | | |
| Boron | **0.50** | | mg/L | 0.050 | 0.0080 | 1 | 267372 | 05/19/21 | 05/19/21 | SBW |
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Chloride | **280** | | mg/L | 50 | 5.0 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 03:13 | RKV |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 00:29 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 00:29 | RKV |
| Sulfate | **230** | | mg/L | 10 | 2.5 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 03:13 | RKV |
| Method: EPA 351.2<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | **0.30** | J | mg/L | 0.40 | 0.030 | 1 | 267667 | 05/25/21 | 05/25/21 | ATP |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.040** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 2150B | | | | | | | | | | |
| Odor | ND | | TON | 1.0 | | 1 | 267393 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM 4500-CL-G | | | | | | | | | | |
| Chlorine, Total Residual | ND | H | mg/L | 0.10 | 0.042 | 1 | 267417 | 05/19/21 17:36 | 05/19/21 17:36 | WWC |
| Method: SM 4500-H+ B | | | | | | | | | | |
| pH | **7.52** | H | SU | | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Temperature | **22.40** | H | deg C | 1.00 | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **0.26** | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.11** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 5310B | | | | | | | | | | |
| Total Organic Carbon | **3.3** | | mg/L | 1.0 | 0.18 | 1 | 267515 | 05/20/21 | 05/20/21 | ATP |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| 445526-004 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Coliform, Total | **7.5** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Method: SM2120B | | | | | | | | | | |
| Color | ND | | ColorUnits | 5 | | 1 | 267394 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2130B | | | | | | | | | | |
| Turbidity | **0.74** | | NTU | 0.10 | 0.07 | 1 | 267392 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2540C<br>Prep Method: METHOD | | | | | | | | | | |
| Total Dissolved Solids | **1,100** | | mg/L | 20 | | 2 | 267557 | 05/21/21 | 05/22/21 | WWC |
| Method: SM2540D<br>Prep Method: METHOD | | | | | | | | | | |
| Total Suspended Solids | **1.5** | | mg/L | 0.5 | | 1.1 | 267547 | 05/20/21 | 05/20/21 | ATP |
| Method: SM5210B<br>Prep Method: METHOD | | | | | | | | | | |
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 1 | 267404 | 05/19/21 10:21 | 05/24/21 10:05 | MMP |
| Method: SM5540C | | | | | | | | | | |
| Surfactants (MBAS) | **0.050** | | mg/L | 0.040 | 0.027 | 1 | 267518 | 05/20/21 10:00 | 05/20/21 12:54 | ATP |
| Method: TOTAL NITROGEN | | | | | | | | | | |
| Total Nitrogen | **0.30** | | mg/L | | | 1 | 267776 | 05/26/21 | 05/26/21 | SLL |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| Sample ID: MCWP-MW09 | Lab ID: 445526-005 | Collected: 05/18/21 12:15 |
|---|---|---|
| | Matrix: Water | |

| 445526-005 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 1664A<br>Prep Method: METHOD | | | | | | | | | | |
| Total Oil and Grease | ND | | mg/L | 5.6 | 1.6 | 1.1 | 267438 | 05/19/21 | 05/19/21 | ECC |
| Method: EPA 200.7<br>Prep Method: EPA 200.7 | | | | | | | | | | |
| Boron | **0.85** | | mg/L | 0.050 | 0.0080 | 1 | 267372 | 05/19/21 | 05/19/21 | SBW |
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Chloride | **700** | | mg/L | 50 | 5.0 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 03:37 | RKV |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 00:52 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 00:52 | RKV |
| Sulfate | **560** | | mg/L | 10 | 2.5 | 10 | 267352 | 05/18/21 21:00 | 05/19/21 03:37 | RKV |
| Method: EPA 351.2<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | **2.0** | | mg/L | 0.40 | 0.030 | 1 | 267667 | 05/25/21 | 05/25/21 | ATP |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | ND | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 2150B | | | | | | | | | | |
| Odor | ND | | TON | 1.0 | | 1 | 267393 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM 4500-CL-G | | | | | | | | | | |
| Chlorine, Total Residual | ND | H | mg/L | 0.10 | 0.042 | 1 | 267417 | 05/19/21 17:36 | 05/19/21 17:36 | WWC |
| Method: SM 4500-H+ B | | | | | | | | | | |
| pH | **7.38** | H | SU | | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Temperature | **22.50** | H | deg C | 1.00 | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **2.0** | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.11** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 5310B | | | | | | | | | | |
| Total Organic Carbon | ND | | mg/L | 1.0 | 0.18 | 1 | 267515 | 05/20/21 | 05/20/21 | ATP |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445526

| 445526-005 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Coliform, Total | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Method: SM2120B | | | | | | | | | | |
| Color | ND | | ColorUnits | 5 | | 1 | 267394 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2130B | | | | | | | | | | |
| Turbidity | **0.81** | | NTU | 0.10 | 0.07 | 1 | 267392 | 05/18/21 19:00 | 05/18/21 19:00 | SGC |
| Method: SM2540C<br>Prep Method: METHOD | | | | | | | | | | |
| Total Dissolved Solids | **2,300** | | mg/L | 20 | | 2 | 267557 | 05/21/21 | 05/22/21 | WWC |
| Method: SM2540D<br>Prep Method: METHOD | | | | | | | | | | |
| Total Suspended Solids | **1.3** | | mg/L | 0.5 | | 1.1 | 267547 | 05/20/21 | 05/20/21 | ATP |
| Method: SM5210B<br>Prep Method: METHOD | | | | | | | | | | |
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 1 | 267404 | 05/19/21 10:23 | 05/24/21 10:05 | MMP |
| Method: SM5540C | | | | | | | | | | |
| Surfactants (MBAS) | **0.041** | | mg/L | 0.040 | 0.027 | 1 | 267518 | 05/20/21 10:00 | 05/20/21 12:54 | ATP |
| Method: TOTAL NITROGEN | | | | | | | | | | |
| Total Nitrogen | **2.0** | | mg/L | | | 1 | 267776 | 05/26/21 | 05/26/21 | SLL |

< Value is less than indicated concentration
H Holding time was exceeded
J Estimated value
ND Not Detected



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925506 | **Batch:** 267352 |
| **Matrix:** Drinking Water | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925506 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | 1.9 | J | mg/L | 5.0 | 0.50 | 05/18/21 21:00 | 05/18/21 21:45 |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 05/18/21 21:00 | 05/18/21 21:45 |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 05/18/21 21:00 | 05/18/21 21:45 |
| Sulfate | ND | | mg/L | 1.0 | 0.25 | 05/18/21 21:00 | 05/18/21 21:45 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925507 | **Batch:** 267352 |
| **Matrix:** Drinking Water | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925507 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Chloride | 98.65 | 100.0 | mg/L | 99% | | 90-110 |
| Nitrogen, Nitrite | 8.407 | 9.134 | mg/L | 92% | | 90-110 |
| Nitrogen, Nitrate | 8.228 | 9.036 | mg/L | 91% | | 90-110 |
| Sulfate | 49.01 | 50.00 | mg/L | 98% | | 90-110 |

| | | |
|---|---|---|
| **Type:** Matrix Spike | **Lab ID:** QC925510 | **Batch:** 267352 |
| **Matrix (Source ID):** Water (445526-001) | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925510 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Chloride | 379.7 | 296.1 | 100.0 | mg/L | 84% | | 80-120 | 10 |
| Nitrogen, Nitrite | 8.165 | ND | 9.134 | mg/L | 89% | | 80-120 | 1 |
| Nitrogen, Nitrate | 9.021 | 0.4240 | 9.036 | mg/L | 95% | | 80-120 | 1 |
| Sulfate | 358.4 | 317.4 | 50.00 | mg/L | 82% | NM | 80-120 | 10 |

| | | |
|---|---|---|
| **Type:** Matrix Spike Duplicate | **Lab ID:** QC925511 | **Batch:** 267352 |
| **Matrix (Source ID):** Water (445526-001) | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925511 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 382.8 | 296.1 | 100.0 | mg/L | 87% | | 80-120 | 1 | 20 | 10 |
| Nitrogen, Nitrite | 8.155 | ND | 9.134 | mg/L | 89% | | 80-120 | 0 | 20 | 1 |
| Nitrogen, Nitrate | 8.956 | 0.4240 | 9.036 | mg/L | 94% | | 80-120 | 1 | 20 | 1 |
| Sulfate | 359.7 | 317.4 | 50.00 | mg/L | 85% | NM | 80-120 | 0 | 20 | 10 |

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925558 | **Batch:** 267372 |
| **Matrix:** Water | **Method:** EPA 200.7 | **Prep Method:** EPA 200.7 |

| QC925558 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Boron | ND | | mg/L | 0.050 | 0.0080 | 05/19/21 | 05/19/21 |

ENTHALPY ANALYTICAL

# Batch QC

| Type: Lab Control Sample | Lab ID: QC925559 | Batch: 267372 |
|---|---|---|
| Matrix: Water | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925559 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Boron | 0.5297 | 0.5000 | mg/L | 106% | | 85-115 |

| Type: Matrix Spike | Lab ID: QC925560 | Batch: 267372 |
|---|---|---|
| Matrix (Source ID): Water (445526-001) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925560 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Boron | 1.159 | 0.6585 | 0.5000 | mg/L | 100% | | 75-125 | 1 |

| Type: Matrix Spike Duplicate | Lab ID: QC925561 | Batch: 267372 |
|---|---|---|
| Matrix (Source ID): Water (445526-001) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925561 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | 1.172 | 0.6585 | 0.5000 | mg/L | 103% | | 75-125 | 1 | 20 | 1 |

| Type: Matrix Spike | Lab ID: QC925562 | Batch: 267372 |
|---|---|---|
| Matrix (Source ID): Water (445541-001) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925562 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Boron | 0.7103 | 0.09373 | 0.5000 | mg/L | 123% | | 75-125 | 1 |

| Type: Matrix Spike Duplicate | Lab ID: QC925563 | Batch: 267372 |
|---|---|---|
| Matrix (Source ID): Water (445541-001) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925563 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.6659 | 0.09373 | 0.5000 | mg/L | 114% | | 75-125 | 6 | 20 | 1 |

| Type: Sample Duplicate | Lab ID: QC925594 | Batch: 267392 |
|---|---|---|
| Matrix (Source ID): Water (445526-005) | Method: SM2130B | |

| QC925594 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Turbidity | 0.8000 | 0.8070 | NTU | | 1 | 20 | 1 |

ENTHALPY ANALYTICAL

# Batch QC

| | | | |
|---|---|---|---|
| **Type:** | **Sample Duplicate** | **Lab ID:** | **QC925595** | **Batch:** | **267393** |
| **Matrix (Source ID):** | **Water (445526-005)** | **Method:** | **SM 2150B** | | |

| QC925595 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Odor | ND | ND | TON | | | 20 | 1 |

| | | | |
|---|---|---|---|
| **Type:** | **Sample Duplicate** | **Lab ID:** | **QC925596** | **Batch:** | **267394** |
| **Matrix (Source ID):** | **Water (445526-005)** | **Method:** | **SM2120B** | | |

| QC925596 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Color | ND | ND | ColorUnits | | | 20 | 1 |

| | | | |
|---|---|---|---|
| **Type:** | **Blank** | **Lab ID:** | **QC925614** | **Batch:** | **267404** |
| **Matrix:** | **Water** | **Method:** | **SM5210B** | **Prep Method:** | **METHOD** |

| QC925614 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 05/19/21 10:05 | 05/24/21 10:05 |

| | | | |
|---|---|---|---|
| **Type:** | **Lab Control Sample** | **Lab ID:** | **QC925615** | **Batch:** | **267404** |
| **Matrix:** | **Water** | **Method:** | **SM5210B** | **Prep Method:** | **METHOD** |

| QC925615 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 216.0 | 198.0 | mg/L | 109% | | 84.6-115.4 |

| | | | |
|---|---|---|---|
| **Type:** | **Sample Duplicate** | **Lab ID:** | **QC925622** | **Batch:** | **267414** |
| **Matrix (Source ID):** | **Water (445526-005)** | **Method:** | **SM 4500-H+ B** | | |

| QC925622 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| pH | 7.360 | 7.380 | SU | | 0 | 20 | 1 |
| Temperature | 22.30 | 22.50 | deg C | | 1 | 20 | 1 |

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Blank** | **Lab ID:** | **QC925631** | **Batch:** | **267417** |
| **Matrix:** | **Water** | **Method:** | **SM 4500-CL-G** | | |

| QC925631 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Chlorine, Total Residual | ND | | mg/L | 0.10 | 0.042 | 05/19/21 17:36 | 05/19/21 17:36 |

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925632 | **Batch:** 267417 |
| **Matrix:** Water | **Method:** SM 4500-CL-G | |

| QC925632 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Chlorine, Total Residual | 1.103 | 1.000 | mg/L | 110% | | 80-120 |

| | | |
|---|---|---|
| **Type:** Sample Duplicate | **Lab ID:** QC925633 | **Batch:** 267417 |
| **Matrix (Source ID):** Water (445526-005) | **Method:** SM 4500-CL-G | |

| QC925633 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Chlorine, Total Residual | ND | ND | mg/L | | | 20 | 1 |

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925693 | **Batch:** 267438 |
| **Matrix:** Water | **Method:** EPA 1664A | **Prep Method:** METHOD |

| QC925693 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Oil and Grease | ND | | mg/L | 5.0 | 1.4 | 05/19/21 | 05/19/21 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925694 | **Batch:** 267438 |
| **Matrix:** Water | **Method:** EPA 1664A | **Prep Method:** METHOD |

| QC925694 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Total Oil and Grease | 34.80 | 40.00 | mg/L | 87% | | 78-114 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample Duplicate | **Lab ID:** QC925695 | **Batch:** 267438 |
| **Matrix:** Water | **Method:** EPA 1664A | **Prep Method:** METHOD |

| QC925695 Analyte | Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim |
|---|---|---|---|---|---|---|---|---|
| Total Oil and Grease | 34.10 | 40.00 | mg/L | 85% | | 78-114 | 2 | 18 |

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925947 | **Batch:** 267515 |
| **Matrix:** Water | **Method:** SM 5310B | |

| QC925947 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | mg/L | 1.0 | 0.18 | 05/20/21 | 05/20/21 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925948 | **Batch:** 267515 |
| **Matrix:** Water | **Method:** SM 5310B | |

| QC925948 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Total Organic Carbon | 9.802 | 10.00 | mg/L | 98% | | 80-120 |

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# Batch QC

**Type:** Matrix Spike | **Lab ID:** QC925949 | **Batch:** 267515
**Matrix (Source ID):** Water (445599-002) | **Method:** SM 5310B

| QC925949 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 41.96 | ND | 40.00 | mg/L | 105% | | 80-120 | 4 |

**Type:** Matrix Spike Duplicate | **Lab ID:** QC925950 | **Batch:** 267515
**Matrix (Source ID):** Water (445599-002) | **Method:** SM 5310B

| QC925950 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 43.40 | ND | 40.00 | mg/L | 109% | | 80-120 | 3 | 20 | 4 |

**Type:** Blank | **Lab ID:** QC925956 | **Batch:** 267518
**Matrix:** Water | **Method:** SM5540C

| QC925956 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Surfactants (MBAS) | ND | | mg/L | 0.040 | 0.027 | 05/20/21 10:00 | 05/20/21 12:54 |

**Type:** Lab Control Sample | **Lab ID:** QC925957 | **Batch:** 267518
**Matrix:** Water | **Method:** SM5540C

| QC925957 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Surfactants (MBAS) | 1.008 | 1.000 | mg/L | 101% | | 90-110 |

**Type:** Matrix Spike | **Lab ID:** QC925958 | **Batch:** 267518
**Matrix (Source ID):** Water (445599-002) | **Method:** SM5540C

| QC925958 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Surfactants (MBAS) | 1.005 | 0.04040 | 1.000 | mg/L | 96% | | 80-120 | 1 |

**Type:** Matrix Spike Duplicate | **Lab ID:** QC925959 | **Batch:** 267518
**Matrix (Source ID):** Water (445599-002) | **Method:** SM5540C

| QC925959 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Surfactants (MBAS) | 1.006 | 0.04040 | 1.000 | mg/L | 97% | | 80-120 | 0 | 20 | 1 |

ENTHALPY ANALYTICAL

# Batch QC

| Type: Blank | Lab ID: QC926049 | Batch: 267547 |
|---|---|---|
| Matrix: Water | Method: SM2540D | Prep Method: METHOD |

| QC926049 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Suspended Solids | ND | | mg/L | 0.5 | | 05/20/21 | 05/20/21 |

| Type: Sample Duplicate | Lab ID: QC926050 | Batch: 267547 |
|---|---|---|
| Matrix (Source ID): Water (445455-001) | Method: SM2540D | Prep Method: METHOD |

| QC926050 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 780.0 | 788.0 | mg/L | | 1 | 5 | 40 |

| Type: Blank | Lab ID: QC926069 | Batch: 267557 |
|---|---|---|
| Matrix: Water | Method: SM2540C | Prep Method: METHOD |

| QC926069 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | ND | | mg/L | 10 | | 05/21/21 | 05/22/21 |

| Type: Lab Control Sample | Lab ID: QC926070 | Batch: 267557 |
|---|---|---|
| Matrix: Water | Method: SM2540C | Prep Method: METHOD |

| QC926070 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 110.0 | 100.0 | mg/L | 110% | | 90-110 |

| Type: Sample Duplicate | Lab ID: QC926071 | Batch: 267557 |
|---|---|---|
| Matrix (Source ID): Water (445526-002) | Method: SM2540C | Prep Method: METHOD |

| QC926071 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 4,880 | 4750 | mg/L | | 3 | 5 | 2 |

| Type: Blank | Lab ID: QC926075 | Batch: 267559 |
|---|---|---|
| Matrix: Water | Method: SM 4500-P-B5-E | |

| QC926075 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Phosphorus | ND | | mg/L | 0.020 | 0.010 | 05/21/21 | 05/21/21 |

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# Batch QC

| Type: Lab Control Sample | Lab ID: QC926076 | Batch: 267559 |
|---|---|---|
| Matrix: Water | Method: SM 4500-P-B5-E | |

| QC926076 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Phosphorus | 0.3950 | 0.4000 | mg/L | 99% | | 80-120 |

| Type: Matrix Spike | Lab ID: QC926077 | Batch: 267559 |
|---|---|---|
| Matrix (Source ID): Water (445345-001) | Method: SM 4500-P-B5-E | |

| QC926077 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Phosphorus | 1.065 | 0.1090 | 1.000 | mg/L | 96% | | 75-125 | 2.5 |

| Type: Matrix Spike Duplicate | Lab ID: QC926078 | Batch: 267559 |
|---|---|---|
| Matrix (Source ID): Water (445345-001) | Method: SM 4500-P-B5-E | |

| QC926078 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | 1.068 | 0.1090 | 1.000 | mg/L | 96% | | 75-125 | 0 | 20 | 2.5 |

| Type: Blank | Lab ID: QC926377 | Batch: 267667 |
|---|---|---|
| Matrix: Water | Method: EPA 351.2 | Prep Method: METHOD |

| QC926377 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | ND | | mg/L | 0.20 | 0.015 | 05/25/21 | 05/25/21 |

| Type: Lab Control Sample | Lab ID: QC926378 | Batch: 267667 |
|---|---|---|
| Matrix: Water | Method: EPA 351.2 | Prep Method: METHOD |

| QC926378 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 2.716 | 2.500 | mg/L | 109% | | 90-110 |

| Type: Matrix Spike | Lab ID: QC926379 | Batch: 267667 |
|---|---|---|
| Matrix (Source ID): Water (445526-001) | Method: EPA 351.2 | Prep Method: METHOD |

| QC926379 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 17.82 | 5.550 | 12.50 | mg/L | 98% | | 90-110 | 2.5 |

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# Batch QC

**Type:** Matrix Spike Duplicate | **Lab ID:** QC926380 | **Batch:** 267667
**Matrix (Source ID):** Water (445526-001) | **Method:** EPA 351.2 | **Prep Method:** METHOD

| QC926380 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 16.44 | 5.550 | 12.50 | mg/L | 87% | * | 90-110 | 8 | 20 | 2.5 |

**Type:** Blank | **Lab ID:** QC926681 | **Batch:** 267790
**Matrix:** Water | **Method:** SM 4500-NH3-G

| QC926681 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 05/26/21 | 05/26/21 |

**Type:** Lab Control Sample | **Lab ID:** QC926682 | **Batch:** 267790
**Matrix:** Water | **Method:** SM 4500-NH3-G

| QC926682 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Ammonia-N | 2.401 | 2.500 | mg/L | 96% | | 80-120 |

**Type:** Matrix Spike | **Lab ID:** QC926683 | **Batch:** 267790
**Matrix (Source ID):** Water (445526-005) | **Method:** SM 4500-NH3-G

| QC926683 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 3.968 | 2.010 | 2.000 | mg/L | 98% | | 80-120 | 1 |

**Type:** Matrix Spike Duplicate | **Lab ID:** QC926684 | **Batch:** 267790
**Matrix (Source ID):** Water (445526-005) | **Method:** SM 4500-NH3-G

| QC926684 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 3.971 | 2.010 | 2.000 | mg/L | 98% | | 80-120 | 0 | 20 | 1 |

* Value is outside QC limits
J Estimated value
ND Not Detected
NM Not Meaningful: Sample concentration > 4X spike concentration

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

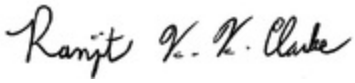
Lab Job Number: 445527
Report Level: II
Report Date: 05/28/2021

**Analytical Report** *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Malibu - Quarterly/Semi-Annual

*Authorized for release by:*



Ranjit K Clarke, Project Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

ENTHALPY ANALYTICAL

# Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 445527
Project No: MALIBU
Location: Malibu - Quarterly/Semi-Annual
Date Received: 05/18/21

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| N-001 | 445527-001 | 05/18/21 11:00 | Water |
| N-002 | 445527-002 | 05/18/21 11:10 | Water |
| N-003 | 445527-003 | 05/18/21 11:25 | Water |
| N-004 | 445527-004 | 05/18/21 10:25 | Water |
| L-001 | 445527-005 | 05/18/21 12:20 | Water |
| L-002 | 445527-006 | 05/18/21 12:40 | Water |
| L-003 | 445527-007 | 05/18/21 12:30 | Water |
| L-004 | 445527-008 | 05/18/21 12:05 | Water |
| L-005 | 445527-009 | 05/18/21 11:30 | Water |
| L-006 | 445527-010 | 05/18/21 11:50 | Water |

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# Case Narrative

| | |
|---|---|
| Rincon Consultants - Ventura<br>180 North Ashwood Ave.<br>Ventura, CA 93003<br>Kiernan Brtalik | Lab Job Number: 445527<br>Project No: MALIBU<br>Location: Malibu - Quarterly/Semi-Annual<br>Date Received: 05/18/21 |

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 05/18/21. The samples were received cold and intact.

**Ion Chromatography (EPA 300.0 and EPA 300.0):**
No analytical problems were encountered.

**Total Phosphorus as P (SM 4500-P-B5-E):**
No analytical problems were encountered.

**Organic Nitrogen, by Calculation (ORGANIC NITROGEN):**
No analytical problems were encountered.

**Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):**
No analytical problems were encountered.

**Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):**
No analytical problems were encountered.

| ENTHALPHY ANALYTICAL, INC. | | Chain of Custody Record | | Turn Around Time (Rush by advanced notice only) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 931 W. Barkley Ave., Orange, CA 92868 | | Lab No: 445527 | | Standard: | X | 4 Day: | | 3 Day: | |
| Phone: (714) 771-6900 Fax: (714) 538-1209 | | Page: 1 of 1 | | 2 Day: | | 1 Day: | | Same Day: | |
| Billing: Enthalpy - SoCal | | Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other | | Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = $HNO_3$ 4 = $H_2SO_4$ 5 = NaOH 6 = Other | | | | | |
| c/o Montrose Environmental Group | | | | | | | | | |
| 1 Park Plaza, Suite 1000, Irvine, CA 92614 | | | | | | | | | |

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | Rincon Consultants | Name: | Malibu - Quarterly/Semi-Annual |
| Report To: | Kiernan Brtalik | Number: | |
| Email: | | P.O. #: | |
| Address: | 180 N. Ashwood Ave. | Address: | |
| | Ventura, CA 93003 | | |
| Phone: | | Global ID: | |
| Cell: | | Sampled By: | Jaime Gruenden |

| Sample ID | Sampling Date | Sampling Time | Matrix | Container No. / Size | Pres. | Total /Fecal Coliforms - SM 9223 Quantitray | EPA 300.0: NO2,NO3 | TKN; NH3; Phosphorus, Organic Nitrogen | Test Instructions / Comments |
|---|---|---|---|---|---|---|---|---|---|
| N-001 | 5/18/21 | 11:00 | sea water | 4 | | X | X | X | 3.1 / 9.6 |
| N-002 | 5/18/21 | 11:10 | | | | X | X | X | 4.2 / 2.9 |
| N-003 | 5/18/21 | 11.25 | | | | X | X | X | 5.1 / 2.3 |
| N-004 | 5/18/21 | 10:25 | | | | X | X | X | 6.3 / 1.2 |
| L-001 | 5/18/21 | 12:20 | | | | X | X | X | |
| L-002 | 5/18/21 | 12:40 | | | | X | X | X | |
| L-003 | 5/18/21 | 12:30 | | | | X | X | X | |
| L-004 | 5/18/21 | 12:05 | | | | X | X | X | |
| L-005 | 5/18/21 | 11:30 | | | | X | X | X | |
| L-006 | 5/18/21 | 11:50 | ↓ | ↓ | | X | X | X | |

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| [1] Relinquished By: | | Jaime Gruenden | Rincon / Biologist | 5/18/21 / |
| [1] Received By: | | David Tran | Enthalpy | 5/18/21 / 1:41pm |
| [2] Relinquished By: | | David Tran | Enthalpy | 5/18/21 17:05 |
| [2] Received By: | | Elizabeth Ramirez | EA | 5/18/21 17:05 |
| [3] Relinquished By: | | | | |
| [3] Received By: | | | | |

ENTHALPY ANALYTICAL

# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: Rincon Consultants

Project: Malibu-Quarterly/Semi-Annual

Date Received: 5/18/2021

Sampler's Name Present: ☑ Yes ☐ No

**Section 2**

Sample(s) received in a cooler? ☑ Yes, How many? 4 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 9.6 #2: 4.2 #3: 5.1 #4: 6.3

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.1 #2: 2.9 #3: 2.3 #4: 1.2

| **Section 4** | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✔ | | |
| Are sample IDs present? | ✔ | | |
| Are sampling dates & times present? | ✔ | | |
| Is a relinquished signature present? | ✔ | | |
| Are the tests required clearly indicated on the COC? | ✔ | | |
| Are custody seals present? | | ✔ | |
| If custody seals are present, were they intact? | | | ✔ |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | ✔ | | |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✔ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✔ | | |
| Were the samples collected in the correct containers for the required tests? | ✔ | | |
| Are the containers labeled with the correct preservatives? | ✔ | | |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✔ |
| Was a sufficient amount of sample submitted for the requested tests? | ✔ | | |

**Section 5** Explanations/Comments

1 Micro sample from L-002 leaked.

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☑ Email (email sent to/on): RKC /5/18/2021

Project Manager's response: Zach

Completed By: _____ Date: 5/18/2021

ENTHALPY ANALYTICAL

# Analysis Results for 445527

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 445527
Project No: MALIBU
Location: Malibu - Quarterly/Semi-Annual
Date Received: 05/18/21

**Sample ID: N-001** **Lab ID: 445527-001** **Collected: 05/18/21 11:00**
**Matrix: Water**

| 445527-001 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 05:34 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 04:00 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 05:34 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.045** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **0.018** | J | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.063** | J | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.47** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **350** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |

**Sample ID: N-002** **Lab ID: 445527-002** **Collected: 05/18/21 11:10**
**Matrix: Water**

| 445527-002 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 05:57 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 04:24 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 05:57 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.13** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.13** | J | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.73** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **360** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445527

| Sample ID: N-003 | Lab ID: 445527-003 | Collected: 05/18/21 11:25 |
|---|---|---|
| | Matrix: Water | |

| 445527-003 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 06:21 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 04:47 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 06:21 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.020** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **0.034** | J | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.054** | J | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.82** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **1,400** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |

| Sample ID: N-004 | Lab ID: 445527-004 | Collected: 05/18/21 10:25 |
|---|---|---|
| | Matrix: Water | |

| 445527-004 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 09:52 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 05:11 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 09:52 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | ND | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | ND | | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.63** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **1.0** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **2,400** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445527

**Sample ID: L-001** **Lab ID: 445527-005** **Collected: 05/18/21 12:20**
**Matrix: Water**

| 445527-005 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 10:15 | RKV |
| Nitrogen, Nitrate | **0.25** | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 07:31 | RKV |
| Nitrogen, Nitrate/Nitrite | **0.25** | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 10:15 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.26** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **0.038** | J | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.30** | J | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.26** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **280** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **>2,400** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |

**Sample ID: L-002** **Lab ID: 445527-006** **Collected: 05/18/21 12:40**
**Matrix: Water**

| 445527-006 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 10:39 | RKV |
| Nitrogen, Nitrate | **0.40** | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 07:55 | RKV |
| Nitrogen, Nitrate/Nitrite | **0.40** | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 10:39 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.36** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **0.040** | J | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.40** | | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.28** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **32** | | MPN/100ml | 2.0 | | 2 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **>4,800** | | MPN/100ml | 2.0 | | 2 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

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# Analysis Results for 445527

| Sample ID: L-003 | Lab ID: 445527-007 | Collected: 05/18/21 12:30 |
|---|---|---|
| | Matrix: Water | |

| 445527-007 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 11:02 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 08:18 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 11:02 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.88** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **0.033** | J | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.91** | | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.19** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **9.7** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **>2,400** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |

| Sample ID: L-004 | Lab ID: 445527-008 | Collected: 05/18/21 12:05 |
|---|---|---|
| | Matrix: Water | |

| 445527-008 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 12:13 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 08:42 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 12:13 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.60** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.60** | | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.057** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **5.2** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **870** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445527

| Sample ID: L-005 | Lab ID: 445527-009 | Collected: 05/18/21 11:30 |
|---|---|---|
| | Matrix: Water | |

| 445527-009 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 12:36 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 09:05 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 12:36 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.45** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.45** | | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.33** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **110** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **>2,400** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |

| Sample ID: L-006 | Lab ID: 445527-010 | Collected: 05/18/21 11:50 |
|---|---|---|
| | Matrix: Water | |

| 445527-010 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/L | 5.0 | 0.60 | 50 | 267352 | 05/18/21 21:00 | 05/19/21 12:59 | RKV |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 1 | 267352 | 05/18/21 21:00 | 05/19/21 09:28 | RKV |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 50 | 267352 | 05/18/21 21:00 | 05/19/21 12:59 | RKV |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | **0.96** | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | **0.024** | J | mg/L | 0.10 | 0.010 | 1 | 267790 | 05/26/21 | 05/26/21 | ATP |
| Nitrogen, Total Kjeldahl | **0.98** | | mg/L | 0.40 | 0.030 | 1 | 267668 | 05/25/21 | 05/25/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.34** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | **13** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |
| Coliform, Total | **1,100** | | MPN/100ml | 1.0 | | 1 | 267382 | 05/18/21 17:40 | 05/19/21 16:13 | CCO |

< Value is less than indicated concentration
> Value exceeds indicated concentration
J Estimated value
ND Not Detected



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925506 | **Batch:** 267352 |
| **Matrix:** Drinking Water | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925506 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 05/18/21 21:00 | 05/18/21 21:45 |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 05/18/21 21:00 | 05/18/21 21:45 |
| Nitrogen, Nitrate/Nitrite | ND | | mg/L | 0.10 | | 05/18/21 21:00 | 05/18/21 21:45 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925507 | **Batch:** 267352 |
| **Matrix:** Drinking Water | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925507 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrite | 8.407 | 9.134 | mg/L | 92% | | 90-110 |
| Nitrogen, Nitrate | 8.228 | 9.036 | mg/L | 91% | | 90-110 |

| | | |
|---|---|---|
| **Type:** Matrix Spike | **Lab ID:** QC925510 | **Batch:** 267352 |
| **Matrix (Source ID):** Water (445526-001) | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925510 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrite | 8.165 | ND | 9.134 | mg/L | 89% | | 80-120 | 1 |
| Nitrogen, Nitrate | 9.021 | 0.4240 | 9.036 | mg/L | 95% | | 80-120 | 1 |

| | | |
|---|---|---|
| **Type:** Matrix Spike Duplicate | **Lab ID:** QC925511 | **Batch:** 267352 |
| **Matrix (Source ID):** Water (445526-001) | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925511 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrite | 8.155 | ND | 9.134 | mg/L | 89% | | 80-120 | 0 | 20 | 1 |
| Nitrogen, Nitrate | 8.956 | 0.4240 | 9.036 | mg/L | 94% | | 80-120 | 1 | 20 | 1 |

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC926075 | **Batch:** 267559 |
| **Matrix:** Water | **Method:** SM 4500-P-B5-E | |

| QC926075 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Phosphorus | ND | | mg/L | 0.020 | 0.010 | 05/21/21 | 05/21/21 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC926076 | **Batch:** 267559 |
| **Matrix:** Water | **Method:** SM 4500-P-B5-E | |

| QC926076 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Phosphorus | 0.3950 | 0.4000 | mg/L | 99% | | 80-120 |

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# Batch QC

**Type:** Matrix Spike **Lab ID:** QC926077 **Batch:** 267559
**Matrix (Source ID):** Water (445345-001) **Method:** SM 4500-P-B5-E

| QC926077 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Phosphorus | 1.065 | 0.1090 | 1.000 | mg/L | 96% | | 75-125 | 2.5 |

**Type:** Matrix Spike Duplicate **Lab ID:** QC926078 **Batch:** 267559
**Matrix (Source ID):** Water (445345-001) **Method:** SM 4500-P-B5-E

| QC926078 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | 1.068 | 0.1090 | 1.000 | mg/L | 96% | | 75-125 | 0 | 20 | 2.5 |

**Type:** Blank **Lab ID:** QC926381 **Batch:** 267668
**Matrix:** Water **Method:** SM 4500-NH3-G

| QC926381 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | ND | | mg/L | 0.20 | 0.015 | 05/25/21 | 05/25/21 |

**Type:** Lab Control Sample **Lab ID:** QC926382 **Batch:** 267668
**Matrix:** Water **Method:** SM 4500-NH3-G

| QC926382 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 2.632 | 2.500 | mg/L | 105% | | 80-120 |

**Type:** Matrix Spike **Lab ID:** QC926383 **Batch:** 267668
**Matrix (Source ID):** Water (445527-001) **Method:** SM 4500-NH3-G

| QC926383 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 14.20 | 0.06340 | 12.50 | mg/L | 113% | | 80-120 | 2.5 |

**Type:** Matrix Spike Duplicate **Lab ID:** QC926384 **Batch:** 267668
**Matrix (Source ID):** Water (445527-001) **Method:** SM 4500-NH3-G

| QC926384 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 14.27 | 0.06340 | 12.50 | mg/L | 114% | | 80-120 | 0 | 20 | 2.5 |

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# Batch QC

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC926681 | **Batch:** 267790 |
| **Matrix:** Water | **Method:** SM 4500-NH3-G | |

| QC926681 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 05/26/21 | 05/26/21 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC926682 | **Batch:** 267790 |
| **Matrix:** Water | **Method:** SM 4500-NH3-G | |

| QC926682 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Ammonia-N | 2.401 | 2.500 | mg/L | 96% | | 80-120 |

| | | |
|---|---|---|
| **Type:** Matrix Spike | **Lab ID:** QC926683 | **Batch:** 267790 |
| **Matrix (Source ID):** Water (445526-005) | **Method:** SM 4500-NH3-G | |

| QC926683 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 3.968 | 2.010 | 2.000 | mg/L | 98% | | 80-120 | 1 |

| | | |
|---|---|---|
| **Type:** Matrix Spike Duplicate | **Lab ID:** QC926684 | **Batch:** 267790 |
| **Matrix (Source ID):** Water (445526-005) | **Method:** SM 4500-NH3-G | |

| QC926684 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 3.971 | 2.010 | 2.000 | mg/L | 98% | | 80-120 | 0 | 20 | 1 |

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

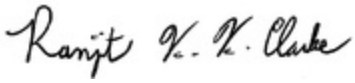
Lab Job Number: 445599
Report Level: II
Report Date: 05/28/2021

**Analytical Report** *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Malibu - Quarterly/Semi-Annual

*Authorized for release by:*



Ranjit K Clarke, Project Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

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# Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

| | |
|---|---|
| Lab Job #: | 445599 |
| Project No: | MALIBU |
| Location: | Malibu - Quarterly/Semi-Annual |
| Date Received: | 05/19/21 |

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| SMBRP-9 | 445599-001 | 05/19/21 09:45 | Water |
| MCWP-MW04D | 445599-002 | 05/19/21 12:30 | Water |

ENTHALPY ANALYTICAL

# Case Narrative

| | |
|---|---|
| Rincon Consultants - Ventura<br>180 North Ashwood Ave.<br>Ventura, CA 93003<br>Kiernan Brtalik | Lab Job Number: 445599<br>Project No: MALIBU<br>Location: Malibu - Quarterly/Semi-Annual<br>Date Received: 05/19/21 |

This data package contains sample and QC results for two water samples, requested for the above referenced project on 05/19/21. The samples were received cold and intact.

**Metals (EPA 200.7):**
No analytical problems were encountered.

**Ion Chromatography (EPA 300.0):**
Chloride was detected between the MDL and the RL in the method blank for batch 267426; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

**Total Carbon by High-Temperature Combust (SM 5310B):**
No analytical problems were encountered.

**Total Phosphorus as P (SM 4500-P-B5-E):**
No analytical problems were encountered.

**Total Oil & Grease (HEM) (EPA 1664A):**
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

**Total Nitrogen, by Calculation (TOTAL NITROGEN):**
No analytical problems were encountered.

**Organic Nitrogen, by Calculation (ORGANIC NITROGEN):**
No analytical problems were encountered.

**Total Dissolved Solids (TDS) (SM2540C):**
No analytical problems were encountered.

**Total Suspended Solids (TSS) (SM2540D):**
No analytical problems were encountered.

**Free Chlorine (SM 4500-CL-G):**
No analytical problems were encountered.

**pH of Aqueous Samples (SM 4500-H+ B):**
No analytical problems were encountered.

**Soluble Biochemical Oxygen Demand (SM5210B):**
No analytical problems were encountered.

**Odor (SM 2150B):**
No analytical problems were encountered.

**Turbidity (SM2130B):**
No analytical problems were encountered.

**Color by Visual Comparison (SM2120B):**
No analytical problems were encountered.

**Surfactants (MBAS) (SM5540C):**
MBAS are calculated and reported as Linear Anionic Surfactants with a molecular weight of 348 g/mol. No analytical problems were encountered.

**Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):**
No analytical problems were encountered.

**Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):**
Low recovery was observed for nitrogen, total kjeldahl in the MSD of SMBRP-12 (lab # 445526-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

| ENTHALPY ANALYTICAL, INC. | | Chain of Custody Record | | | | Turn Around Time (Rush by advanced notice only) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 931 W. Barkley Ave., Orange, CA 92868 | | Lab No: 445599 | | | | Standard: | X | 4 Day: | | 3 Day: | |
| Phone: (714) 771-6900 Fax: (714) 538-1209 | | Page: 1 of 1 | | | | 2 Day: | | 1 Day: | | Same Day: | |
| Billing: Enthalpy - SoCal | | Matrix: A = Air DW = Drinking Water | | | | Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = $HNO_3$ | | | | | |
| c/o Montrose Environmental Group | | FL = Food Liquid FS = Food Solid L = Liquid | | | | 4 = $H_2SO_4$ 5 = NaOH 6 = Other | | | | | |
| 1 Park Plaza, Suite 1000, Irvine, CA 92614 | | PP = Pure Product S = Solid SeaW = Sea Water | | | | | | | | | |
| | | SW = Swab W = Water WP = Wipe O = Other | | | | | | | | | |

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | Rincon Consultants | Name: | Malibu - Quarterly/Semi-Annual |
| Report To: | Kiernan Brtalik | Number: | |
| Email: | | P.O. #: | 20-09665 |
| Address: | 180 N. Ashwood Ave. | Address: | |
| | Ventura, CA 93003 | | |
| Phone: | | Global ID: | |
| Cell: | | Sampled By: | |

| Sample ID | Sampling Date | Sampling Time | Matrix | Container No. / Size | Pres. | Total /Fecal Coliforms - SM 9223 Quantitray | EPA 200.7 (B) | EPA 300.0: Cl,NO2,NO3,SO4 | TKN; NH3; Phosphorus | SM 5310C TOC; BOD; TSS; TDS | pH; Residual Cl; MBAS; Turbidity; Color; Odor | EPA 1664A Oil & Grease | Organic Nitrogen, Total Nitrogen | | | Test Instructions / Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SMBRP-9 | 5/19/21 | 0945 | W | 10 | | X | X | X | X | X | X | X | X | | | 2.9 / 13.0 |
| ~~SMBRP-12~~ | | | | | | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | | | MC |
| ~~MCWP-MW04S~~ | | | | | | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | | | MC |
| MCWP-MW04D | 5/19/21 | 1230 | W | 10 | | X | X | X | X | X | X | X | X | | | |
| ~~MCWP-MW07S~~ | | | | | | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | | | MC |
| ~~MCWP-MW07D~~ | | | | | | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | | | MC |
| ~~MCWP-MW09~~ | | | | | | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | ~~X~~ | | | MC |

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| [1] Relinquished By: | | MICHELLE CARTER | RINCON CONSULTANTS | 5/19/21 / 1331 |
| [1] Received By: | | David Tran | Enthalpy | 5/19/21 / 13:36 |
| [2] Relinquished By: | | DAVID TRAN | ENTHALPY | 5/19/21 16:05 |
| [2] Received By: | | FPDIWA | EA | 5/19/21 1605 |
| [3] Relinquished By: | | | | |

ENTHALPY ANALYTICAL

# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: RINCON CONSULTANTS Project: MALIBU - QUARTERLY/SEMI-ANNUAL

Date Received: 5/19/21 Sampler's Name Present: ☐ Yes ☑ No

**Section 2**

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 13.0 #2: _____ #3: _____ #4: _____

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.9 #2: _____ #3: _____ #4: _____

| Section 4 | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✓ | | |
| Are sample IDs present? | ✓ | | |
| Are sampling dates & times present? | ✓ | | |
| Is a relinquished signature present? | ✓ | | |
| Are the tests required clearly indicated on the COC? | ✓ | | |
| Are custody seals present? | | ✓ | |
| If custody seals are present, were they intact? | | | ✓ |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | ✓ | | |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✓ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✓ | | |
| Were the samples collected in the correct containers for the required tests? | ✓ | | |
| Are the containers labeled with the correct preservatives? | ✓ | | |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✓ |
| Was a sufficient amount of sample submitted for the requested tests? | ✓ | | |

**Section 5** Explanations/Comments

_____

_____

_____

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 5/19/21

ENTHALPY ANALYTICAL

# Analysis Results for 445599

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 445599
Project No: MALIBU
Location: Malibu - Quarterly/Semi-Annual
Date Received: 05/19/21

**Sample ID: SMBRP-9** **Lab ID: 445599-001** **Collected: 05/19/21 09:45**
**Matrix: Water**

| 445599-001 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 1664A<br>Prep Method: METHOD | | | | | | | | | | |
| Total Oil and Grease | ND | | mg/L | 5.6 | 1.6 | 1.1 | 267438 | 05/19/21 | 05/19/21 | ECC |
| Method: EPA 200.7<br>Prep Method: EPA 200.7 | | | | | | | | | | |
| Boron | **0.61** | | mg/L | 0.050 | 0.0080 | 1 | 267437 | 05/19/21 | 05/20/21 | SBW |
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Chloride | **120** | | mg/L | 5.0 | 0.50 | 1 | 267426 | 05/19/21 16:00 | 05/20/21 02:17 | RKV |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 1 | 267426 | 05/19/21 16:00 | 05/20/21 02:17 | RKV |
| Nitrogen, Nitrate | **3.6** | | mg/L | 0.10 | 0.05 | 1 | 267426 | 05/19/21 16:00 | 05/20/21 02:17 | RKV |
| Sulfate | **160** | | mg/L | 10 | 2.5 | 10 | 267426 | 05/19/21 16:00 | 05/20/21 03:04 | RKV |
| Method: EPA 351.2<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | ND | | mg/L | 0.40 | 0.030 | 1 | 267667 | 05/25/21 | 05/25/21 | ATP |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | ND | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 2150B | | | | | | | | | | |
| Odor | ND | | TON | 1.0 | | 1 | 267408 | 05/19/21 18:30 | 05/19/21 18:30 | SGC |
| Method: SM 4500-CL-G | | | | | | | | | | |
| Chlorine, Total Residual | ND | H | mg/L | 0.10 | 0.042 | 1 | 267417 | 05/19/21 17:36 | 05/19/21 17:36 | WWC |
| Method: SM 4500-H+ B | | | | | | | | | | |
| pH | **7.05** | H | SU | | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Temperature | **17.20** | H | deg C | 1.00 | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267791 | 05/26/21 | 05/26/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.043** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 5310B | | | | | | | | | | |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445599

| 445599-001 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | **6.3** | | mg/L | 1.0 | 0.18 | 1 | 267515 | 05/20/21 | 05/20/21 | ATP |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267424 | 05/19/21 16:35 | 05/20/21 14:30 | CCO |
| Coliform, Total | **1,600** | | MPN/100ml | 1.0 | | 1 | 267424 | 05/19/21 16:35 | 05/20/21 14:30 | CCO |
| Method: SM2120B | | | | | | | | | | |
| Color | ND | | ColorUnits | 5 | | 1 | 267407 | 05/19/21 18:30 | 05/19/21 18:30 | SGC |
| Method: SM2130B | | | | | | | | | | |
| Turbidity | **21** | | NTU | 0.10 | 0.07 | 1 | 267406 | 05/19/21 18:30 | 05/19/21 18:30 | SGC |
| Method: SM2540C<br>Prep Method: METHOD | | | | | | | | | | |
| Total Dissolved Solids | **1,200** | | mg/L | 20 | | 2 | 267561 | 05/21/21 | 05/22/21 | WWC |
| Method: SM2540D<br>Prep Method: METHOD | | | | | | | | | | |
| Total Suspended Solids | **140** | | mg/L | 1.4 | | 2.9 | 267676 | 05/21/21 | 05/21/21 | ATP |
| Method: SM5210B<br>Prep Method: METHOD | | | | | | | | | | |
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 1 | 267404 | 05/19/21 16:24 | 05/24/21 10:05 | MMP |
| Method: SM5540C | | | | | | | | | | |
| Surfactants (MBAS) | **0.26** | | mg/L | 0.040 | 0.027 | 1 | 267518 | 05/20/21 10:00 | 05/20/21 12:54 | ATP |
| Method: TOTAL NITROGEN | | | | | | | | | | |
| Total Nitrogen | **3.6** | | mg/L | | | 1 | 267895 | 05/27/21 | 05/27/21 | SLL |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445599

| Sample ID: MCWP-MW04D | Lab ID: 445599-002 | Collected: 05/19/21 12:30 |
|---|---|---|
| | Matrix: Water | |

| 445599-002 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 1664A<br>Prep Method: METHOD | | | | | | | | | | |
| Total Oil and Grease | ND | | mg/L | 5.6 | 1.6 | 1.1 | 267438 | 05/19/21 | 05/19/21 | ECC |
| Method: EPA 200.7<br>Prep Method: EPA 200.7 | | | | | | | | | | |
| Boron | **0.81** | | mg/L | 0.050 | 0.0080 | 1 | 267437 | 05/19/21 | 05/20/21 | SBW |
| Method: EPA 300.0<br>Prep Method: METHOD | | | | | | | | | | |
| Chloride | **230** | | mg/L | 50 | 5.0 | 10 | 267426 | 05/19/21 16:00 | 05/20/21 03:27 | RKV |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 1 | 267426 | 05/19/21 16:00 | 05/20/21 02:40 | RKV |
| Nitrogen, Nitrate | **1.4** | | mg/L | 0.10 | 0.05 | 1 | 267426 | 05/19/21 16:00 | 05/20/21 02:40 | RKV |
| Sulfate | **570** | | mg/L | 10 | 2.5 | 10 | 267426 | 05/19/21 16:00 | 05/20/21 03:27 | RKV |
| Method: EPA 351.2<br>Prep Method: METHOD | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | ND | | mg/L | 0.40 | 0.030 | 1 | 267667 | 05/25/21 | 05/25/21 | ATP |
| Method: ORGANIC NITROGEN | | | | | | | | | | |
| Organic Nitrogen as N | ND | | mg/L | | | 1 | 267894 | 05/27/21 | 05/27/21 | SLL |
| Method: SM 2150B | | | | | | | | | | |
| Odor | ND | | TON | 1.0 | | 1 | 267408 | 05/19/21 18:30 | 05/19/21 18:30 | SGC |
| Method: SM 4500-CL-G | | | | | | | | | | |
| Chlorine, Total Residual | ND | H | mg/L | 0.10 | 0.042 | 1 | 267417 | 05/19/21 17:36 | 05/19/21 17:36 | WWC |
| Method: SM 4500-H+ B | | | | | | | | | | |
| pH | **7.06** | H | SU | | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Temperature | **17.60** | H | deg C | 1.00 | | 1 | 267414 | 05/19/21 18:00 | 05/19/21 18:00 | SGC |
| Method: SM 4500-NH3-G | | | | | | | | | | |
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 1 | 267791 | 05/26/21 | 05/26/21 | ATP |
| Method: SM 4500-P-B5-E | | | | | | | | | | |
| Phosphorus | **0.44** | | mg/L | 0.020 | 0.010 | 1 | 267559 | 05/21/21 | 05/21/21 | SGC |
| Method: SM 5310B | | | | | | | | | | |
| Total Organic Carbon | ND | | mg/L | 1.0 | 0.18 | 1 | 267515 | 05/20/21 | 05/20/21 | ATP |
| Method: SM 9223Bb | | | | | | | | | | |
| Fecal Coliform | <1.0 | | MPN/100ml | 1.0 | | 1 | 267424 | 05/19/21 16:35 | 05/20/21 14:30 | CCO |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 445599

| 445599-002 Analyte | Result | Qual | Units | RL | MDL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|---|
| Coliform, Total | <1.0 | | MPN/100ml | 1.0 | | 1 | 267424 | 05/19/21 16:35 | 05/20/21 14:30 | CCO |
| Method: SM2120B | | | | | | | | | | |
| Color | ND | | ColorUnits | 5 | | 1 | 267407 | 05/19/21 18:30 | 05/19/21 18:30 | SGC |
| Method: SM2130B | | | | | | | | | | |
| Turbidity | **2.1** | | NTU | 0.10 | 0.07 | 1 | 267406 | 05/19/21 18:30 | 05/19/21 18:30 | SGC |
| Method: SM2540C<br>Prep Method: METHOD | | | | | | | | | | |
| Total Dissolved Solids | **1,600** | | mg/L | 20 | | 2 | 267561 | 05/21/21 | 05/22/21 | WWC |
| Method: SM2540D<br>Prep Method: METHOD | | | | | | | | | | |
| Total Suspended Solids | **0.9** | | mg/L | 0.5 | | 1.1 | 267676 | 05/21/21 | 05/21/21 | ATP |
| Method: SM5210B<br>Prep Method: METHOD | | | | | | | | | | |
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 1 | 267404 | 05/19/21 16:26 | 05/24/21 10:05 | MMP |
| Method: SM5540C | | | | | | | | | | |
| Surfactants (MBAS) | **0.040** | | mg/L | 0.040 | 0.027 | 1 | 267518 | 05/20/21 10:00 | 05/20/21 12:54 | ATP |
| Method: TOTAL NITROGEN | | | | | | | | | | |
| Total Nitrogen | **1.4** | | mg/L | | | 1 | 267895 | 05/27/21 | 05/27/21 | SLL |

< Value is less than indicated concentration
H Holding time was exceeded
ND Not Detected



Results for any subcontracted analyses are not included in this section.

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# Batch QC

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925614 | **Batch:** 267404 |
| **Matrix:** Water | **Method:** SM5210B | **Prep Method:** METHOD |

| QC925614 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | ND | | mg/L | 3.0 | | 05/19/21 10:05 | 05/24/21 10:05 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925615 | **Batch:** 267404 |
| **Matrix:** Water | **Method:** SM5210B | **Prep Method:** METHOD |

| QC925615 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Biochemical Oxygen Demand | 216.0 | 198.0 | mg/L | 109% | | 84.6-115.4 |

| | | |
|---|---|---|
| **Type:** Sample Duplicate | **Lab ID:** QC925616 | **Batch:** 267406 |
| **Matrix (Source ID):** Drinking Water (445568-004) | **Method:** SM2130B | |

| QC925616 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Turbidity | 0.1260 | 0.1230 | NTU | | 2 | 20 | 1 |

| | | |
|---|---|---|
| **Type:** Sample Duplicate | **Lab ID:** QC925617 | **Batch:** 267407 |
| **Matrix (Source ID):** Drinking Water (445568-004) | **Method:** SM2120B | |

| QC925617 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Color | ND | ND | ColorUnits | | | 20 | 1 |

| | | |
|---|---|---|
| **Type:** Sample Duplicate | **Lab ID:** QC925618 | **Batch:** 267408 |
| **Matrix (Source ID):** Drinking Water (445568-004) | **Method:** SM 2150B | |

| QC925618 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Odor | ND | ND | TON | | | 20 | 1 |

| | | |
|---|---|---|
| **Type:** Sample Duplicate | **Lab ID:** QC925622 | **Batch:** 267414 |
| **Matrix (Source ID):** Water (445526-005) | **Method:** SM 4500-H+ B | |

| QC925622 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| pH | 7.360 | 7.380 | SU | | 0 | 20 | 1 |
| Temperature | 22.30 | 22.50 | deg C | | 1 | 20 | 1 |

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# Batch QC

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925631 | **Batch:** 267417 |
| **Matrix:** Water | **Method:** SM 4500-CL-G | |

| QC925631 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Chlorine, Total Residual | ND | | mg/L | 0.10 | 0.042 | 05/19/21 17:36 | 05/19/21 17:36 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925632 | **Batch:** 267417 |
| **Matrix:** Water | **Method:** SM 4500-CL-G | |

| QC925632 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Chlorine, Total Residual | 1.103 | 1.000 | mg/L | 110% | | 80-120 |

| | | |
|---|---|---|
| **Type:** Sample Duplicate | **Lab ID:** QC925633 | **Batch:** 267417 |
| **Matrix (Source ID):** Water (445526-005) | **Method:** SM 4500-CL-G | |

| QC925633 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Chlorine, Total Residual | ND | ND | mg/L | | | 20 | 1 |

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC925644 | **Batch:** 267426 |
| **Matrix:** Drinking Water | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925644 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | 1.9 | J | mg/L | 5.0 | 0.50 | 05/19/21 16:00 | 05/19/21 16:31 |
| Nitrogen, Nitrite | ND | | mg/L | 0.10 | 0.01 | 05/19/21 16:00 | 05/19/21 16:31 |
| Nitrogen, Nitrate | ND | | mg/L | 0.10 | 0.05 | 05/19/21 16:00 | 05/19/21 16:31 |
| Sulfate | ND | | mg/L | 1.0 | 0.25 | 05/19/21 16:00 | 05/19/21 16:31 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC925645 | **Batch:** 267426 |
| **Matrix:** Drinking Water | **Method:** EPA 300.0 | **Prep Method:** METHOD |

| QC925645 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Chloride | 98.66 | 100.0 | mg/L | 99% | | 90-110 |
| Nitrogen, Nitrite | 8.480 | 9.134 | mg/L | 93% | | 90-110 |
| Nitrogen, Nitrate | 8.608 | 9.036 | mg/L | 95% | | 90-110 |
| Sulfate | 50.76 | 50.00 | mg/L | 102% | | 90-110 |

ENTHALPY ANALYTICAL

# Batch QC

| Type: | Matrix Spike | Lab ID: | QC925646 | Batch: | 267426 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Drinking Water (445592-001) | Method: | EPA 300.0 | Prep Method: | METHOD |

| QC925646 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Chloride | 166.5 | 69.96 | 100.0 | mg/L | 96% | | 80-120 | 1 |
| Nitrogen, Nitrite | 8.446 | ND | 9.134 | mg/L | 92% | | 80-120 | 1 |
| Nitrogen, Nitrate | 8.851 | ND | 9.036 | mg/L | 98% | | 80-120 | 1 |
| Sulfate | 61.07 | 11.15 | 50.00 | mg/L | 100% | | 80-120 | 1 |

| Type: | Matrix Spike Duplicate | Lab ID: | QC925647 | Batch: | 267426 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Drinking Water (445592-001) | Method: | EPA 300.0 | Prep Method: | METHOD |

| QC925647 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 167.3 | 69.96 | 100.0 | mg/L | 97% | | 80-120 | 0 | 20 | 1 |
| Nitrogen, Nitrite | 8.463 | ND | 9.134 | mg/L | 93% | | 80-120 | 0 | 20 | 1 |
| Nitrogen, Nitrate | 8.967 | ND | 9.036 | mg/L | 99% | | 80-120 | 1 | 20 | 1 |
| Sulfate | 61.65 | 11.15 | 50.00 | mg/L | 101% | | 80-120 | 1 | 20 | 1 |

| Type: | Matrix Spike | Lab ID: | QC925648 | Batch: | 267426 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Drinking Water (445586-001) | Method: | EPA 300.0 | Prep Method: | METHOD |

| QC925648 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Chloride | 135.6 | 36.79 | 100.0 | mg/L | 99% | | 80-120 | 1 |
| Nitrogen, Nitrite | 8.625 | ND | 9.134 | mg/L | 94% | | 80-120 | 1 |
| Nitrogen, Nitrate | 22.56 | 14.57 | 9.036 | mg/L | 88% | | 80-120 | 10 |
| Sulfate | 111.5 | 59.25 | 50.00 | mg/L | 105% | | 80-120 | 10 |

| Type: | Matrix Spike Duplicate | Lab ID: | QC925649 | Batch: | 267426 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Drinking Water (445586-001) | Method: | EPA 300.0 | Prep Method: | METHOD |

| QC925649 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 136.0 | 36.79 | 100.0 | mg/L | 99% | | 80-120 | 0 | 20 | 1 |
| Nitrogen, Nitrite | 8.658 | ND | 9.134 | mg/L | 95% | | 80-120 | 0 | 20 | 1 |
| Nitrogen, Nitrate | 21.94 | 14.57 | 9.036 | mg/L | 82% | | 80-120 | 3 | 20 | 10 |
| Sulfate | 108.3 | 59.25 | 50.00 | mg/L | 98% | | 80-120 | 3 | 20 | 10 |

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# Batch QC

| Type: Blank | Lab ID: QC925687 | Batch: 267437 |
|---|---|---|
| Matrix: Water | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925687 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Boron | ND | | mg/L | 0.050 | 0.0080 | 05/19/21 | 05/20/21 |

| Type: Lab Control Sample | Lab ID: QC925688 | Batch: 267437 |
|---|---|---|
| Matrix: Water | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925688 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Boron | 0.5149 | 0.5000 | mg/L | 103% | | 85-115 |

| Type: Matrix Spike | Lab ID: QC925689 | Batch: 267437 |
|---|---|---|
| Matrix (Source ID): Water (445584-001) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925689 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Boron | 0.6811 | 0.1241 | 0.5000 | mg/L | 111% | | 75-125 | 1 |

| Type: Matrix Spike Duplicate | Lab ID: QC925690 | Batch: 267437 |
|---|---|---|
| Matrix (Source ID): Water (445584-001) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925690 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.6790 | 0.1241 | 0.5000 | mg/L | 111% | | 75-125 | 0 | 20 | 1 |

| Type: Matrix Spike | Lab ID: QC925691 | Batch: 267437 |
|---|---|---|
| Matrix (Source ID): Water (445599-002) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925691 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Boron | 1.274 | 0.8110 | 0.5000 | mg/L | 93% | | 75-125 | 1 |

| Type: Matrix Spike Duplicate | Lab ID: QC925692 | Batch: 267437 |
|---|---|---|
| Matrix (Source ID): Water (445599-002) | Method: EPA 200.7 | Prep Method: EPA 200.7 |

| QC925692 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | 1.348 | 0.8110 | 0.5000 | mg/L | 107% | | 75-125 | 6 | 20 | 1 |

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type: Blank** | **Lab ID: QC925693** | **Batch: 267438** |
| **Matrix: Water** | **Method: EPA 1664A** | **Prep Method: METHOD** |

| QC925693 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Oil and Grease | ND | | mg/L | 5.0 | 1.4 | 05/19/21 | 05/19/21 |

| | | |
|---|---|---|
| **Type: Lab Control Sample** | **Lab ID: QC925694** | **Batch: 267438** |
| **Matrix: Water** | **Method: EPA 1664A** | **Prep Method: METHOD** |

| QC925694 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Total Oil and Grease | 34.80 | 40.00 | mg/L | 87% | | 78-114 |

| | | |
|---|---|---|
| **Type: Lab Control Sample Duplicate** | **Lab ID: QC925695** | **Batch: 267438** |
| **Matrix: Water** | **Method: EPA 1664A** | **Prep Method: METHOD** |

| QC925695 Analyte | Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim |
|---|---|---|---|---|---|---|---|---|
| Total Oil and Grease | 34.10 | 40.00 | mg/L | 85% | | 78-114 | 2 | 18 |

| | | |
|---|---|---|
| **Type: Blank** | **Lab ID: QC925947** | **Batch: 267515** |
| **Matrix: Water** | **Method: SM 5310B** | |

| QC925947 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | mg/L | 1.0 | 0.18 | 05/20/21 | 05/20/21 |

| | | |
|---|---|---|
| **Type: Lab Control Sample** | **Lab ID: QC925948** | **Batch: 267515** |
| **Matrix: Water** | **Method: SM 5310B** | |

| QC925948 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Total Organic Carbon | 9.802 | 10.00 | mg/L | 98% | | 80-120 |

| | | |
|---|---|---|
| **Type: Matrix Spike** | **Lab ID: QC925949** | **Batch: 267515** |
| **Matrix (Source ID): Water (445599-002)** | **Method: SM 5310B** | |

| QC925949 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 41.96 | ND | 40.00 | mg/L | 105% | | 80-120 | 4 |

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# Batch QC

| Type: | Matrix Spike Duplicate | Lab ID: | QC925950 | Batch: | 267515 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Water (445599-002) | Method: | SM 5310B | | |

| QC925950 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 43.40 | ND | 40.00 | mg/L | 109% | | 80-120 | 3 | 20 | 4 |

| Type: | Blank | Lab ID: | QC925956 | Batch: | 267518 |
|---|---|---|---|---|---|
| Matrix: | Water | Method: | SM5540C | | |

| QC925956 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Surfactants (MBAS) | ND | | mg/L | 0.040 | 0.027 | 05/20/21 10:00 | 05/20/21 12:54 |

| Type: | Lab Control Sample | Lab ID: | QC925957 | Batch: | 267518 |
|---|---|---|---|---|---|
| Matrix: | Water | Method: | SM5540C | | |

| QC925957 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Surfactants (MBAS) | 1.008 | 1.000 | mg/L | 101% | | 90-110 |

| Type: | Matrix Spike | Lab ID: | QC925958 | Batch: | 267518 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Water (445599-002) | Method: | SM5540C | | |

| QC925958 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Surfactants (MBAS) | 1.005 | 0.04040 | 1.000 | mg/L | 96% | | 80-120 | 1 |

| Type: | Matrix Spike Duplicate | Lab ID: | QC925959 | Batch: | 267518 |
|---|---|---|---|---|---|
| Matrix (Source ID): | Water (445599-002) | Method: | SM5540C | | |

| QC925959 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Surfactants (MBAS) | 1.006 | 0.04040 | 1.000 | mg/L | 97% | | 80-120 | 0 | 20 | 1 |

| Type: | Blank | Lab ID: | QC926075 | Batch: | 267559 |
|---|---|---|---|---|---|
| Matrix: | Water | Method: | SM 4500-P-B5-E | | |

| QC926075 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Phosphorus | ND | | mg/L | 0.020 | 0.010 | 05/21/21 | 05/21/21 |

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# Batch QC

| Type: Lab Control Sample | Lab ID: QC926076 | Batch: 267559 |
|---|---|---|
| Matrix: Water | Method: SM 4500-P-B5-E | |

| QC926076 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Phosphorus | 0.3950 | 0.4000 | mg/L | 99% | | 80-120 |

| Type: Matrix Spike | Lab ID: QC926077 | Batch: 267559 |
|---|---|---|
| Matrix (Source ID): Water (445345-001) | Method: SM 4500-P-B5-E | |

| QC926077 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Phosphorus | 1.065 | 0.1090 | 1.000 | mg/L | 96% | | 75-125 | 2.5 |

| Type: Matrix Spike Duplicate | Lab ID: QC926078 | Batch: 267559 |
|---|---|---|
| Matrix (Source ID): Water (445345-001) | Method: SM 4500-P-B5-E | |

| QC926078 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus | 1.068 | 0.1090 | 1.000 | mg/L | 96% | | 75-125 | 0 | 20 | 2.5 |

| Type: Blank | Lab ID: QC926082 | Batch: 267561 |
|---|---|---|
| Matrix: Water | Method: SM2540C | Prep Method: METHOD |

| QC926082 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | ND | | mg/L | 10 | | 05/21/21 | 05/22/21 |

| Type: Lab Control Sample | Lab ID: QC926083 | Batch: 267561 |
|---|---|---|
| Matrix: Water | Method: SM2540C | Prep Method: METHOD |

| QC926083 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 110.0 | 100.0 | mg/L | 110% | | 90-110 |

| Type: Sample Duplicate | Lab ID: QC926084 | Batch: 267561 |
|---|---|---|
| Matrix (Source ID): Water (445566-010) | Method: SM2540C | Prep Method: METHOD |

| QC926084 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 20,110 | 20980 | mg/L | | 4 | 5 | 10 |

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# Batch QC

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC926377 | **Batch:** 267667 |
| **Matrix:** Water | **Method:** EPA 351.2 | **Prep Method:** METHOD |

| QC926377 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | ND | | mg/L | 0.20 | 0.015 | 05/25/21 | 05/25/21 |

| | | |
|---|---|---|
| **Type:** Lab Control Sample | **Lab ID:** QC926378 | **Batch:** 267667 |
| **Matrix:** Water | **Method:** EPA 351.2 | **Prep Method:** METHOD |

| QC926378 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 2.716 | 2.500 | mg/L | 109% | | 90-110 |

| | | |
|---|---|---|
| **Type:** Matrix Spike | **Lab ID:** QC926379 | **Batch:** 267667 |
| **Matrix (Source ID):** Water (445526-001) | **Method:** EPA 351.2 | **Prep Method:** METHOD |

| QC926379 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 17.82 | 5.550 | 12.50 | mg/L | 98% | | 90-110 | 2.5 |

| | | |
|---|---|---|
| **Type:** Matrix Spike Duplicate | **Lab ID:** QC926380 | **Batch:** 267667 |
| **Matrix (Source ID):** Water (445526-001) | **Method:** EPA 351.2 | **Prep Method:** METHOD |

| QC926380 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total Kjeldahl | 16.44 | 5.550 | 12.50 | mg/L | 87% | * | 90-110 | 8 | 20 | 2.5 |

| | | |
|---|---|---|
| **Type:** Blank | **Lab ID:** QC926403 | **Batch:** 267676 |
| **Matrix:** Water | **Method:** SM2540D | **Prep Method:** METHOD |

| QC926403 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Total Suspended Solids | ND | | mg/L | 0.5 | | 05/21/21 | 05/21/21 |

| | | |
|---|---|---|
| **Type:** Sample Duplicate | **Lab ID:** QC926404 | **Batch:** 267676 |
| **Matrix (Source ID):** Water (445593-001) | **Method:** SM2540D | **Prep Method:** METHOD |

| QC926404 Analyte | Result | Source Sample Result | Units | Qual | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 400.0 | 400.0 | mg/L | | 0 | 5 | 40 |

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# Batch QC

| | | |
|---|---|---|
| **Type: Blank** | **Lab ID: QC926685** | **Batch: 267791** |
| **Matrix: Water** | **Method: SM 4500-NH3-G** | |

| QC926685 Analyte | Result | Qual | Units | RL | MDL | Prepared | Analyzed |
|---|---|---|---|---|---|---|---|
| Ammonia-N | ND | | mg/L | 0.10 | 0.010 | 05/26/21 | 05/26/21 |

| | | |
|---|---|---|
| **Type: Lab Control Sample** | **Lab ID: QC926686** | **Batch: 267791** |
| **Matrix: Water** | **Method: SM 4500-NH3-G** | |

| QC926686 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Ammonia-N | 2.385 | 2.500 | mg/L | 95% | | 80-120 |

| | | |
|---|---|---|
| **Type: Matrix Spike** | **Lab ID: QC926687** | **Batch: 267791** |
| **Matrix (Source ID): Water (445599-002)** | **Method: SM 4500-NH3-G** | |

| QC926687 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 2.453 | ND | 2.500 | mg/L | 98% | | 80-120 | 1 |

| | | |
|---|---|---|
| **Type: Matrix Spike Duplicate** | **Lab ID: QC926688** | **Batch: 267791** |
| **Matrix (Source ID): Water (445599-002)** | **Method: SM 4500-NH3-G** | |

| QC926688 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 2.415 | ND | 2.500 | mg/L | 97% | | 80-120 | 2 | 20 | 1 |

* Value is outside QC limits
J Estimated value
ND Not Detected

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REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

# CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

**AmeriSci Los Angeles**

24416 South Main Street

Carson, CA 90745

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **3037**

Expiration Date: **11/30/2021**

Effective Date: **12/1/2019**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

# CALIFORNIA STATE
# ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
## Accredited Fields of Testing



**AmeriSci Los Angeles**

24416 South Main Street
Carson, CA 90745
Phone: 3108344868

**Certificate No.** 3037
**Expiration Date** 11/30/2021

| | | | |
|---|---|---|---|
| **Field of Testing:** 103 - Toxic Chemical Elements of Drinking Water | | | |
| 103.125 | 002 | Antimony | EPA 200.5 |
| 103.125 | 003 | Arsenic | EPA 200.5 |
| 103.125 | 013 | Selenium | EPA 200.5 |
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.150 | 009 | Lead | EPA 200.9 |
| 103.160 | 001 | Mercury | EPA 245.1 |
| 103.300 | 001 | Asbestos | EPA 100.1 |
| 103.301 | 001 | Asbestos | EPA 100.2 |
| **Field of Testing:** 108 - Inorganic Constituents in Non-Potable Water | | | |
| 108.020 | 001 | Specific Conductance | EPA 120.1 |
| 108.051 | 001 | Hydrogen Ion (pH) | EPA 150.2 |
| 108.110 | 001 | Turbidity | EPA 180.1 |
| 108.440 | 001 | Residue, Total | SM 2540 B-1997 |
| 108.441 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 108.442 | 001 | Residue, Non-filterable TSS | SM 2540 D-1997 |
| **Field of Testing:** 109 - Metals and Trace Elements in Non-Potable Water | | | |
| 109.010 | 002 | Antimony | EPA 200.7 |
| 109.010 | 003 | Arsenic | EPA 200.7 |
| 109.010 | 004 | Barium | EPA 200.7 |
| 109.010 | 005 | Beryllium | EPA 200.7 |
| 109.010 | 007 | Cadmium | EPA 200.7 |
| 109.010 | 009 | Chromium | EPA 200.7 |
| 109.010 | 010 | Cobalt | EPA 200.7 |

As of 12/1/2019, this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

| | | | |
|---|---|---|---|
| 109.010 | 011 | Copper | EPA 200.7 |
| 109.010 | 013 | Lead | EPA 200.7 |
| 109.010 | 016 | Molybdenum | EPA 200.7 |
| 109.010 | 017 | Nickel | EPA 200.7 |
| 109.010 | 019 | Selenium | EPA 200.7 |
| 109.010 | 021 | Silver | EPA 200.7 |
| 109.010 | 023 | Thallium | EPA 200.7 |
| 109.010 | 026 | Vanadium | EPA 200.7 |
| 109.010 | 027 | Zinc | EPA 200.7 |
| 109.190 | 001 | Mercury | EPA 245.1 |
| 109.445 | 002 | Chromium (VI) | SM 3500-Cr B-2009 |
| **Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste | | | |
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.103 | 001 | Chromium (VI) | EPA 7196 A |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |
| **Field of Testing:** 115 - Extraction Test of Hazardous Waste | | | |
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 (TCLP) |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 (TCLP) |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |
| **Field of Testing:** 121 - Bulk Asbestos Analysis of Hazardous Waste | | | |
| 121.010 | 001 | Bulk Asbestos | EPA 600/M4-82-020 |

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REGIONAL WATER QUALITY CONTROL BOARDS

**Interim**

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

# CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

**Ceres Analytical Laboratory, Inc.**

4919 Windplay Drive, Suite 1

El Dorado Hills, CA 95762

Scope of the certificate is limited to the
"Fields of Accreditation"
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **3046**

Effective Date: **5/1/2021**

Expiration Date: **4/30/2022**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

**CALIFORNIA STATE**
**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**
**Fields of Accreditation**

**Ceres Analytical Laboratory, Inc.**

4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone: 9169325011

**Certificate Number: 3046**
**Expiration Date: 4/30/2022**
**INTERIM**

**Field of Accreditation:** 105 - Semi-volatile Organic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 105.230 | 001 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | EPA 1613 B |
| 105.230 | 002 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Screening Only | EPA 1613 B |

**Field of Accreditation:** 111 - Semi-volatile Organic Constituents in Non-Potable Water

| | | | |
|---|---|---|---|
| 111.250 | 001 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | EPA 1613 B |
| 111.250 | 002 | Total Tetrachlorodibenzo-p-dioxin (TCDD) | EPA 1613 B |
| 111.250 | 003 | 2,3,7,8-Tetrachlorodibenzofuran (TCDF) | EPA 1613 B |
| 111.250 | 004 | Total Tetrachlorodibenzofuran (TCDF) | EPA 1613 B |
| 111.250 | 005 | 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD) | EPA 1613 B |
| 111.250 | 006 | Total Pentachlorodibenzo-p-dioxin (PeCDD) | EPA 1613 B |
| 111.250 | 007 | 1,2,3,7,8-Pentachlorodibenzofuran (PeCDF) | EPA 1613 B |
| 111.250 | 008 | 2,3,4,7,8-Pentachlorodibenzofuran (PeCDF) | EPA 1613 B |
| 111.250 | 009 | Total Pentachlorodibenzofuran (PeCDF) | EPA 1613 B |
| 111.250 | 010 | 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD) | EPA 1613 B |
| 111.250 | 011 | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD) | EPA 1613 B |
| 111.250 | 012 | 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD) | EPA 1613 B |
| 111.250 | 013 | Total Hexachlorodibenzo-p-dioxin (HxCDD) | EPA 1613 B |
| 111.250 | 014 | 1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF) | EPA 1613 B |
| 111.250 | 015 | 1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF) | EPA 1613 B |
| 111.250 | 016 | 1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF) | EPA 1613 B |
| 111.250 | 017 | 2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF) | EPA 1613 B |
| 111.250 | 018 | Total Hexachlorodibenzofuran (HxCDF) | EPA 1613 B |
| 111.250 | 019 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD) | EPA 1613 B |
| 111.250 | 020 | Total Heptachlorodibenzo-p-dioxin (HpCDD) | EPA 1613 B |
| 111.250 | 021 | 1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF) | EPA 1613 B |
| 111.250 | 022 | 1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF) | EPA 1613 B |
| 111.250 | 023 | Total Heptachlorodibenzofuran (HpCDF) | EPA 1613 B |
| 111.250 | 024 | OCDD | EPA 1613 B |
| 111.250 | 025 | OCDF | EPA 1613 B |

# Oregon
## Environmental Laboratory
## Accreditation Program

NELAP Recognized

### Ceres Analytical Laboratory, Inc.

**4049**

4919 Windplay Dr., Suite 1

El Dorado Hills, CA 95762

IS GRANTED APPROVAL BY ORELAP UNDER THE 2016 TNI STANDARDS, TO PERFORM ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

| Air | Drinking Water | Non-Potable Water | Solids and Chemical Waste | Tissue |
|---|---|---|---|---|
| | Chemistry | Chemistry | Chemistry | |

AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

ACCREDITED STATUS DEPENDS ON SUCCESSFUL ONGOING PARTICIPATION IN THE PROGRAM AND CONTINUED COMPLIANCE WITH THE STANDARDS.

CUSTOMERS ARE URGED TO VERIFY THE LABORATORY'S CURRENT ACCREDITATION STATUS IN OREGON.

Travis Bartholomew
Oregon State Public Health Laboratory
ORELAP Program Manager
7202 NE Evergreen Parkway, Suite 100
Hillsboro, OR 97124

EFFECTIVE DATE : **2/14/2021**
EXPIRATION DATE : **2/13/2022**
Certificate No : **4049 - 009**

# OREGON

## Environmental Laboratory Accreditation Program

## ORELAP Fields of Accreditation

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

**ORELAP ID:** 4049
**EPA CODE:** CA01612
**Certificate:** 4049 - 009

Issue Date: 2/14/2021 Expiration Date: 2/13/2022

**As of 2/14/2021 this list supersedes all previous lists for this certificate number.**

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| **Drinking Water** | | | | | |
| | EPA 1613B | | | 10120602 | Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS |
| | | 9618 | 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) | | |
| **Non-Potable Water** | | | | | |
| | EPA 1613B | | | 10120602 | Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS |
| | | 9516 | 1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF) | | |
| | | 9519 | 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD) | | |
| | | 9420 | 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf) | | |
| | | 9426 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd) | | |
| | | 9423 | 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf) | | |
| | | 9471 | 1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-Hxcdf) | | |
| | | 9453 | 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-Hxcdd) | | |
| | | 9474 | 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-Hxcdf) | | |
| | | 9456 | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin(1,2,3,6,7,8-Hxcdd) | | |
| | | 9477 | 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-Hxcdf) | | |
| | | 9459 | 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-Hxcdd) | | |
| | | 9543 | 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-Pecdf) | | |
| | | 9540 | 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-Pecdd) | | |

Ceres Analytical Laboratory, Inc.

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9480 | 2,3,4,6,7,8-Hexachlorodibenzofuran | | |
| | | 9549 | 2,3,4,7,8-Pentachlorodibenzofuran | | |
| | | 9618 | 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) | | |
| | | 9612 | 2,3,7,8-Tetrachlorodibenzofuran | | |
| | | 9438 | Hpcdd, total | | |
| | | 9444 | Hpcdf, total | | |
| | | 9468 | Hxcdd, total | | |
| | | 9483 | Hxcdf, total | | |
| | | 9555 | Pecdd, total | | |
| | | 9552 | Pecdf, total | | |
| | | 9609 | TCDD, total | | |
| | | 9615 | TCDF, total | | |
| | EPA 1668C<br>EPA 1668C | | | 10262109 | Chlorinated Biphenyl Cogeners in Water, Soil, Sediment, and Tissue by GC-HRMS |
| | | 9095 | 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206) | | |
| | | 9090 | 2,2',3,3',4,4',5,5'-Octachlorobiphenyl (BZ-194) | | |
| | | 9101 | 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (BZ-207) | | |
| | | 9103 | 2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ-195) | | |
| | | 9102 | 2,2',3,3',4,4',5,6'-Octachlorobiphenyl (BZ-196) | | |
| | | 9065 | 2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170) | | |
| | | 9104 | 2,2',3,3',4,4',6,6'-Octachlorobiphenyl (BZ-197) | | |
| | | 9106 | 2,2',3,3',4,4',6-Heptachlorobiphenyl (BZ-171) | | |
| | | 9020 | 2,2',3,3',4,4'-Hexachlorobiphenyl (BZ-128) | | |
| | | 9107 | 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (BZ-208) | | |
| | | 9109 | 2,2',3,3',4,5,5',6-Octachlorobiphenyl | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | | (BZ-198) | | |
| | | 9108 | 2,2',3,3',4,5,5',6'-Octachlorobiphenyl (BZ-199) | | |
| | | 9110 | 2,2',3,3',4,5,5'-Heptachlorobiphenyl (BZ-172) | | |
| | | 9111 | 2,2',3,3',4,5,6,6'-Octachlorobiphenyl (BZ-200) | | |
| | | 9112 | 2,2',3,3',4,5',6,6'-Octachlorobiphenyl (BZ-201) | | |
| | | 9113 | 2,2',3,3',4,5,6-Heptachlorobiphenyl (BZ-173) | | |
| | | 9116 | 2,2',3,3',4,5,6'-Heptachlorobiphenyl (BZ-174) | | |
| | | 9115 | 2,2',3,3',4,5',6-Heptachlorobiphenyl (BZ-175) | | |
| | | 9114 | 2,2',3,3',4,5',6'-Heptachlorobiphenyl (BZ-177) | | |
| | | 9118 | 2,2',3,3',4,5-Hexachlorobiphenyl (BZ-129) | | |
| | | 9117 | 2,2',3,3',4,5'-Hexachlorobiphenyl (BZ-130) | | |
| | | 9119 | 2,2',3,3',4,6,6'-Heptachlorobiphenyl (BZ-176) | | |
| | | 9121 | 2,2',3,3',4,6-Hexachlorobiphenyl (BZ-131) | | |
| | | 9120 | 2,2',3,3',4,6'-Hexachlorobiphenyl (BZ-132) | | |
| | | 9122 | 2,2',3,3',4-Pentachlorobiphenyl (BZ-82) | | |
| | | 9123 | 2,2',3,3',5,5',6,6'-Octachlorobiphenyl (BZ-202) | | |
| | | 9124 | 2,2',3,3',5,5',6-Heptachlorobiphenyl (BZ-178) | | |
| | | 9125 | 2,2',3,3',5,5'-Hexachlorobiphenyl (BZ-133) | | |
| | | 9126 | 2,2',3,3',5,6,6'-Heptachlorobiphenyl (BZ-179) | | |
| | | 9128 | 2,2',3,3',5,6-Hexachlorobiphenyl (BZ-134) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9127 | 2,2',3,3',5,6'-Hexachlorobiphenyl (BZ-135) | | |
| | | 9129 | 2,2',3,3',5-Pentachlorobiphenyl (BZ-83) | | |
| | | 9130 | 2,2',3,3',6,6'-Hexachlorobiphenyl (BZ-136) | | |
| | | 9131 | 2,2',3,3',6-Pentachlorobiphenyl (BZ-84) | | |
| | | 9132 | 2,2',3,3'-Tetrachlorobiphenyl (BZ-40) | | |
| | | 9133 | 2,2',3,4,4',5,5',6-Octachlorobiphenyl (BZ-203) | | |
| | | 9134 | 2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180) | | |
| | | 9135 | 2,2',3,4,4',5,6,6'-Octachlorobiphenyl (BZ-204) | | |
| | | 9137 | 2,2',3,4,4',5,6-Heptachlorobiphenyl (BZ-181) | | |
| | | 9136 | 2,2',3,4,4',5,6'-Heptachlorobiphenyl (BZ-182) | | |
| | | 9075 | 2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183) | | |
| | | 9138 | 2,2',3,4,4',5-Hexachlorobiphenyl (BZ-137) | | |
| | | 9025 | 2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138) | | |
| | | 9139 | 2,2',3,4,4',6,6'-Heptachlorobiphenyl (BZ-184) | | |
| | | 9141 | 2,2',3,4,4',6-Hexachlorobiphenyl (BZ-139) | | |
| | | 9140 | 2,2',3,4,4',6'-Hexachlorobiphenyl (BZ-140) | | |
| | | 9142 | 2,2',3,4,4'-Pentachlorobiphenyl (BZ-85) | | |
| | | 9143 | 2,2',3,4,5,5',6-Heptachlorobiphenyl (BZ-185) | | |
| | | 9080 | 2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187) | | |
| | | 9030 | 2,2',3,4,5,5'-Hexachlorobiphenyl (BZ-141) | | |
| | | 9144 | 2,2',3,4',5,5'-Hexachlorobiphenyl (BZ- | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | | 146) | | |
| | | 9145 | 2,2',3,4,5,6,6'-Heptachlorobiphenyl (BZ-186) | | |
| | | 9146 | 2,2',3,4',5,6,6'-Heptachlorobiphenyl (BZ-188) | | |
| | | 9148 | 2,2',3,4,5,6-Hexachlorobiphenyl (BZ-142) | | |
| | | 9152 | 2,2',3,4,5,6'-Hexachlorobiphenyl (BZ-143) | | |
| | | 9150 | 2,2',3,4,5',6-Hexachlorobiphenyl (BZ-144) | | |
| | | 9149 | 2,2',3,4',5,6-Hexachlorobiphenyl (BZ-147) | | |
| | | 9147 | 2,2',3,4',5,6'-Hexachlorobiphenyl (BZ-148) | | |
| | | 9151 | 2,2',3,4',5',6-Hexachlorobiphenyl (BZ-149) | | |
| | | 9153 | 2,2',3,4,5-Pentachlorobiphenyl (BZ-86) | | |
| | | 8975 | 2,2',3,4,5'-Pentachlorobiphenyl (BZ-87) | | |
| | | 9155 | 2,2',3,4',5-Pentachlorobiphenyl (BZ-90) | | |
| | | 9154 | 2,2',3,4',5'-Pentachlorobiphenyl (BZ-97) | | |
| | | 9156 | 2,2',3,4,6,6'-Hexachlorobiphenyl (BZ-145) | | |
| | | 9157 | 2,2',3,4',6,6'-Hexachlorobiphenyl (BZ-150) | | |
| | | 9158 | 2,2',3,4,6-Pentachlorobiphenyl (BZ-88) | | |
| | | 9161 | 2,2',3,4,6'-Pentachlorobiphenyl (BZ-89) | | |
| | | 9160 | 2,2',3,4',6-Pentachlorobiphenyl (BZ-91) | | |
| | | 9159 | 2,2',3,4',6'-Pentachlorobiphenyl (BZ-98) | | |
| | | 9163 | 2,2',3,4-Tetrachlorobiphenyl (BZ-41) | | |
| | | 9162 | 2,2',3,4'-Tetrachlorobiphenyl (BZ-42) | | |
| | | 9035 | 2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151) | | |
| | | 9164 | 2,2',3,5,5'-Pentachlorobiphenyl (BZ-92) | | |
| | | 9165 | 2,2',3,5,6,6'-Hexachlorobiphenyl (BZ-152) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9168 | 2,2',3,5,6-Pentachlorobiphenyl (BZ-93) | | |
| | | 9167 | 2,2',3,5,6'-Pentachlorobiphenyl (BZ-94) | | |
| | | 9166 | 2,2',3,5',6-Pentachlorobiphenyl (BZ-95) | | |
| | | 9169 | 2,2',3,5-Tetrachlorobiphenyl (BZ-43) | | |
| | | 8945 | 2,2',3,5'-Tetrachlorobiphenyl (BZ-44) | | |
| | | 9170 | 2,2',3,6,6'-Pentachlorobiphenyl (BZ-96) | | |
| | | 9172 | 2,2',3,6-Tetrachlorobiphenyl (BZ-45) | | |
| | | 9171 | 2,2',3,6'-Tetrachlorobiphenyl (BZ-46) | | |
| | | 9173 | 2,2',3-Trichlorobiphenyl (BZ-16) | | |
| | | 9040 | 2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153) | | |
| | | 9174 | 2,2',4,4',5,6'-Hexachlorobiphenyl (BZ-154) | | |
| | | 9175 | 2,2',4,4',5-Pentachlorobiphenyl (BZ-99) | | |
| | | 9176 | 2,2',4,4',6,6'-Hexachlorobiphenyl (BZ-155) | | |
| | | 9177 | 2,2',4,4',6-Pentachlorobiphenyl (BZ-100) | | |
| | | 9178 | 2,2',4,4'-Tetrachlorobiphenyl (BZ-47) | | |
| | | 8980 | 2,2',4,5,5'-Pentachlorobiphenyl (BZ-101) | | |
| | | 9180 | 2,2',4,5,6'-Pentachlorobiphenyl (BZ-102) | | |
| | | 9179 | 2,2',4,5',6-Pentachlorobiphenyl (BZ-103) | | |
| | | 9181 | 2,2',4,5-Tetrachlorobiphenyl (BZ-48) | | |
| | | 8950 | 2,2',4,5'-Tetrachlorobiphenyl (BZ-49) | | |
| | | 9182 | 2,2',4,6,6'-Pentachlorobiphenyl (BZ-104) | | |
| | | 9184 | 2,2',4,6-Tetrachlorobiphenyl (BZ-50) | | |
| | | 9183 | 2,2',4,6'-Tetrachlorobiphenyl (BZ-51) | | |
| | | 9185 | 2,2',4-Trichlorobiphenyl (BZ-17) | | |
| | | 8955 | 2,2',5,5'-Tetrachlorobiphenyl (BZ-52) | | |
| | | 9186 | 2,2',5,6'-Tetrachlorobiphenyl (BZ-53) | | |
| | | 8930 | 2,2',5-Trichlorobiphenyl (BZ-18) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9187 | 2,2',6,6'-Tetrachlorobiphenyl (BZ-54) | | |
| | | 9188 | 2,2',6-Trichlorobiphenyl (BZ-19) | | |
| | | 9189 | 2,2'-Dichlorobiphenyl (BZ-4) | | |
| | | 9190 | 2,3,3',4,4',5,5',6-Octachlorobiphenyl (BZ-205) | | |
| | | 9085 | 2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ-189) | | |
| | | 9191 | 2,3,3',4,4',5,6-Heptachlorobiphenyl (BZ-190) | | |
| | | 9192 | 2,3,3',4,4',5',6-Heptachlorobiphenyl (BZ-191) | | |
| | | 9050 | 2,3,3',4,4',5-Hexachlorobiphenyl (BZ-156) | | |
| | | 9045 | 2,3,3',4,4',5'-Hexachlorobiphenyl (BZ-157) | | |
| | | 9193 | 2,3,3',4,4',6-Hexachlorobiphenyl (BZ-158) | | |
| | | 8985 | 2,3,3',4,4'-Pentachlorobiphenyl (BZ-105) | | |
| | | 9194 | 2,3,3',4,5,5',6-Heptachlorobiphenyl (BZ-192) | | |
| | | 9195 | 2,3,3',4',5,5',6-Heptachlorobiphenyl (BZ-193) | | |
| | | 9196 | 2,3,3',4,5,5'-Hexachlorobiphenyl (BZ-159) | | |
| | | 9197 | 2,3,3',4',5,5'-Hexachlorobiphenyl (BZ-162) | | |
| | | 9198 | 2,3,3',4,5,6-Hexachlorobiphenyl (BZ-160) | | |
| | | 9199 | 2,3,3',4',5,6-Hexachlorobiphenyl (BZ-163) | | |
| | | 9201 | 2,3,3',4',5',6-Hexachlorobiphenyl (BZ-164) | | |
| | | 9200 | 2,3,3',4,5',6-Hexachlorobiphenyl (BZ-161) | | |
| | | 9204 | 2,3,3',4,5-Pentachlorobiphenyl (BZ-106) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9205 | 2,3,3',4',5-Pentachlorobiphenyl (BZ-107) | | |
| | | 9203 | 2,3,3',4,5'-Pentachlorobiphenyl (BZ-108) | | |
| | | 9202 | 2,3,3',4',5'-Pentachlorobiphenyl (BZ-122) | | |
| | | 9206 | 2,3,3',4,6-Pentachlorobiphenyl (BZ-109) | | |
| | | 8990 | 2,3,3',4',6-Pentachlorobiphenyl (BZ-110) | | |
| | | 9208 | 2,3,3',4-Tetrachlorobiphenyl (BZ-55) | | |
| | | 9207 | 2,3,3',4'-Tetrachlorobiphenyl (BZ-56) | | |
| | | 9209 | 2,3,3',5,5',6-Hexachlorobiphenyl (BZ-165) | | |
| | | 9210 | 2,3,3',5,5'-Pentachlorobiphenyl (BZ-111) | | |
| | | 9211 | 2,3,3',5,6-Pentachlorobiphenyl (BZ-112) | | |
| | | 9212 | 2,3,3',5',6-Pentachlorobiphenyl (BZ-113) | | |
| | | 9214 | 2,3,3',5-Tetrachlorobiphenyl (BZ-57) | | |
| | | 9213 | 2,3,3',5'-Tetrachlorobiphenyl (BZ-58) | | |
| | | 9215 | 2,3,3',6-Tetrachlorobiphenyl (BZ-59) | | |
| | | 9216 | 2,3,3'-Trichlorobiphenyl (BZ-20) | | |
| | | 9055 | 2,3',4,4',5,5'-Hexachlorobiphenyl (BZ-167) | | |
| | | 9217 | 2,3,4,4',5,6-Hexachlorobiphenyl (BZ-166) | | |
| | | 9218 | 2,3',4,4',5',6-Hexachlorobiphenyl (BZ-168) | | |
| | | 9005 | 2,3,4,4',5-Pentachlorobiphenyl (BZ-114) | | |
| | | 8995 | 2,3',4,4',5-Pentachlorobiphenyl (BZ-118) | | |
| | | 9000 | 2,3',4,4',5'-Pentachlorobiphenyl (BZ-123) | | |
| | | 9219 | 2,3,4,4',6-Pentachlorobiphenyl (BZ-115) | | |
| | | 9220 | 2,3',4,4',6-Pentachlorobiphenyl (BZ-119) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9221 | 2,3,4,4'-Tetrachlorobiphenyl (BZ-60) | | |
| | | 8960 | 2,3',4,4'-Tetrachlorobiphenyl (BZ-66) | | |
| | | 9223 | 2,3',4,5,5'-Pentachlorobiphenyl (BZ-120) | | |
| | | 9222 | 2,3',4',5,5'-Pentachlorobiphenyl (BZ-124) | | |
| | | 9225 | 2,3,4,5,6-Pentachlorobiphenyl (BZ-116) | | |
| | | 9227 | 2,3,4',5,6-Pentachlorobiphenyl (BZ-117) | | |
| | | 9226 | 2,3',4,5',6-Pentachlorobiphenyl (BZ-121) | | |
| | | 9224 | 2,3',4',5',6-Pentachlorobiphenyl (BZ-125) | | |
| | | 9228 | 2,3,4,5-Tetrachlorobiphenyl (BZ-61) | | |
| | | 9233 | 2,3,4',5-Tetrachlorobiphenyl (BZ-63) | | |
| | | 9231 | 2,3',4,5'-Tetrachlorobiphenyl (BZ-68) | | |
| | | 9230 | 2,3',4',5-Tetrachlorobiphenyl (BZ-70) | | |
| | | 9229 | 2,3',4',5'-Tetrachlorobiphenyl (BZ-76) | | |
| | | 9232 | 2,3',4,5-Tetrachlorobiphenyl (BZ-67) | | |
| | | 9234 | 2,3,4,6-Tetrachlorobiphenyl (BZ-62) | | |
| | | 9236 | 2,3,4',6-Tetrachlorobiphenyl (BZ-64) | | |
| | | 9235 | 2,3',4,6-Tetrachlorobiphenyl (BZ-69) | | |
| | | 9237 | 2,3',4',6-Tetrachlorobiphenyl (BZ-71) | | |
| | | 9238 | 2,3,4-Trichlorobiphenyl (BZ-21) | | |
| | | 9241 | 2,3,4'-Trichlorobiphenyl (BZ-22) | | |
| | | 9240 | 2,3',4-Trichlorobiphenyl (BZ-25) | | |
| | | 9239 | 2,3',4'-Trichlorobiphenyl (BZ-33) | | |
| | | 9242 | 2,3',5,5'-Tetrachlorobiphenyl (BZ-72) | | |
| | | 9243 | 2,3,5,6-Tetrachlorobiphenyl (BZ-65) | | |
| | | 9244 | 2,3',5',6-Tetrachlorobiphenyl (BZ-73) | | |
| | | 9245 | 2,3,5-Trichlorobiphenyl (BZ-23) | | |
| | | 8935 | 2,3',5-Trichlorobiphenyl (BZ-26) | | |
| | | 9246 | 2,3',5'-Trichlorobiphenyl (BZ-34) | | |
| | | 9247 | 2,3,6-Trichlorobiphenyl (BZ-24) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9248 | 2,3',6-Trichlorobiphenyl (BZ-27) | | |
| | | 8920 | 2,3-Dichlorobiphenyl (BZ-5) | | |
| | | 9249 | 2,3'-Dichlorobiphenyl (BZ-6) | | |
| | | 9250 | 2,4,4',5-Tetrachlorobiphenyl (BZ-74) | | |
| | | 9251 | 2,4,4',6-Tetrachlorobiphenyl (BZ-75) | | |
| | | 9252 | 2,4,4'-Trichlorobiphenyl (BZ-28) | | |
| | | 9253 | 2,4,5-Trichlorobiphenyl (BZ-29) | | |
| | | 8940 | 2,4',5-Trichlorobiphenyl (BZ-31) | | |
| | | 9254 | 2,4,6-Trichlorobiphenyl (BZ-30) | | |
| | | 9255 | 2,4',6-Trichlorobiphenyl (BZ-32) | | |
| | | 9257 | 2,4-Dichlorobiphenyl (BZ-7) | | |
| | | 9256 | 2,4'-Dichlorobiphenyl (BZ-8) | | |
| | | 9258 | 2,5-Dichlorobiphenyl (BZ-9) | | |
| | | 9259 | 2,6-Dichlorobiphenyl (BZ-10) | | |
| | | 8915 | 2-Chlorobiphenyl (BZ-1) | | |
| | | 9060 | 3,3',4,4',5,5'-Hexachlorobiphenyl (BZ-169) | | |
| | | 9015 | 3,3',4,4',5-Pentachlorobiphenyl (BZ-126) | | |
| | | 8965 | 3,3',4,4'-Tetrachlorobiphenyl (BZ-77) | | |
| | | 9260 | 3,3',4,5,5'-Pentachlorobiphenyl (BZ-127) | | |
| | | 9262 | 3,3',4,5-Tetrachlorobiphenyl (BZ-78) | | |
| | | 9261 | 3,3',4,5'-Tetrachlorobiphenyl (BZ-79) | | |
| | | 9263 | 3,3',4-Trichlorobiphenyl (BZ-35) | | |
| | | 9264 | 3,3',5,5'-Tetrachlorobiphenyl (BZ-80) | | |
| | | 9265 | 3,3',5-Trichlorobiphenyl (BZ-36) | | |
| | | 8925 | 3,3'-Dichlorobiphenyl (BZ-11) | | |
| | | 8970 | 3,4,4',5-Tetrachlorobiphenyl (BZ-81) | | |
| | | 9266 | 3,4,4'-Trichlorobiphenyl (BZ-37) | | |
| | | 9267 | 3,4,5-Trichlorobiphenyl (BZ-38) | | |
| | | 9268 | 3,4',5-Trichlorobiphenyl (BZ-39) | | |
| | | 9270 | 3,4-Dichlorobiphenyl (BZ-12) | | |

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|---|---|---|---|---|---|
| | | 9269 | 3,4'-Dichlorobiphenyl (BZ-13) | | |
| | | 9271 | 3,5-Dichlorobiphenyl (BZ-14) | | |
| | | 9272 | 3-Chlorobiphenyl (BZ-2) | | |
| | | 9273 | 4,4'-Dichlorobiphenyl (BZ-15) | | |
| | | 9274 | 4-Chlorobiphenyl (BZ-3) | | |
| | | 9105 | Decachlorobiphenyl (BZ-209) | | |
| | | 8876 | Total Dichlorobiphenyls | | |
| | | 8877 | Total Heptachlorobiphenyls | | |
| | | 8888 | Total Hexachlorobiphenyls | | |
| | | 8889 | Total Monochlorobiphenyls | | |
| | | 8891 | Total Nonachlorobiphenyls | | |
| | | 8892 | Total Octachlorobiphenyls | | |
| | | 8896 | Total Pentachlorobiphenyls | | |
| | | 8893 | Total Tetrachlorobiphenyls | | |
| | | 8894 | Total Trichlorobiphenyls | | |
| **Solids** | | | | | |
| | EPA 1668C | | | 10262109 | Chlorinated Biphenyl Cogeners in Water, Soil, Sediment, and Tissue by GC-HRMS |
| | EPA 1668C | | | | |
| | | 9095 | 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206) | | |
| | | 9090 | 2,2',3,3',4,4',5,5'-Octachlorobiphenyl (BZ-194) | | |
| | | 9101 | 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (BZ-207) | | |
| | | 9103 | 2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ-195) | | |
| | | 9102 | 2,2',3,3',4,4',5,6'-Octachlorobiphenyl (BZ-196) | | |
| | | 9065 | 2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170) | | |
| | | 9104 | 2,2',3,3',4,4',6,6'-Octachlorobiphenyl (BZ-197) | | |
| | | 9106 | 2,2',3,3',4,4',6-Heptachlorobiphenyl (BZ-171) | | |

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|---|---|---|---|---|---|
| | | 9020 | 2,2',3,3',4,4'-Hexachlorobiphenyl (BZ-128) | | |
| | | 9107 | 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (BZ-208) | | |
| | | 9109 | 2,2',3,3',4,5,5',6-Octachlorobiphenyl (BZ-198) | | |
| | | 9108 | 2,2',3,3',4,5,5',6'-Octachlorobiphenyl (BZ-199) | | |
| | | 9110 | 2,2',3,3',4,5,5'-Heptachlorobiphenyl (BZ-172) | | |
| | | 9111 | 2,2',3,3',4,5,6,6'-Octachlorobiphenyl (BZ-200) | | |
| | | 9112 | 2,2',3,3',4,5',6,6'-Octachlorobiphenyl (BZ-201) | | |
| | | 9113 | 2,2',3,3',4,5,6-Heptachlorobiphenyl (BZ-173) | | |
| | | 9116 | 2,2',3,3',4,5,6'-Heptachlorobiphenyl (BZ-174) | | |
| | | 9115 | 2,2',3,3',4,5',6-Heptachlorobiphenyl (BZ-175) | | |
| | | 9114 | 2,2',3,3',4,5',6'-Heptachlorobiphenyl (BZ-177) | | |
| | | 9118 | 2,2',3,3',4,5-Hexachlorobiphenyl (BZ-129) | | |
| | | 9117 | 2,2',3,3',4,5'-Hexachlorobiphenyl (BZ-130) | | |
| | | 9119 | 2,2',3,3',4,6,6'-Heptachlorobiphenyl (BZ-176) | | |
| | | 9121 | 2,2',3,3',4,6-Hexachlorobiphenyl (BZ-131) | | |
| | | 9120 | 2,2',3,3',4,6'-Hexachlorobiphenyl (BZ-132) | | |
| | | 9122 | 2,2',3,3',4-Pentachlorobiphenyl (BZ-82) | | |
| | | 9123 | 2,2',3,3',5,5',6,6'-Octachlorobiphenyl (BZ-202) | | |
| | | 9124 | 2,2',3,3',5,5',6-Heptachlorobiphenyl (BZ-178) | | |
| | | 9125 | 2,2',3,3',5,5'-Hexachlorobiphenyl (BZ- | | |

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|---|---|---|---|---|---|
| | | | 133) | | |
| | | 9126 | 2,2',3,3',5,6,6'-Heptachlorobiphenyl (BZ-179) | | |
| | | 9128 | 2,2',3,3',5,6-Hexachlorobiphenyl (BZ-134) | | |
| | | 9127 | 2,2',3,3',5,6'-Hexachlorobiphenyl (BZ-135) | | |
| | | 9129 | 2,2',3,3',5-Pentachlorobiphenyl (BZ-83) | | |
| | | 9130 | 2,2',3,3',6,6'-Hexachlorobiphenyl (BZ-136) | | |
| | | 9131 | 2,2',3,3',6-Pentachlorobiphenyl (BZ-84) | | |
| | | 9132 | 2,2',3,3'-Tetrachlorobiphenyl (BZ-40) | | |
| | | 9133 | 2,2',3,4,4',5,5',6-Octachlorobiphenyl (BZ-203) | | |
| | | 9134 | 2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180) | | |
| | | 9135 | 2,2',3,4,4',5,6,6'-Octachlorobiphenyl (BZ-204) | | |
| | | 9137 | 2,2',3,4,4',5,6-Heptachlorobiphenyl (BZ-181) | | |
| | | 9136 | 2,2',3,4,4',5,6'-Heptachlorobiphenyl (BZ-182) | | |
| | | 9075 | 2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183) | | |
| | | 9138 | 2,2',3,4,4',5-Hexachlorobiphenyl (BZ-137) | | |
| | | 9025 | 2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138) | | |
| | | 9139 | 2,2',3,4,4',6,6'-Heptachlorobiphenyl (BZ-184) | | |
| | | 9141 | 2,2',3,4,4',6-Hexachlorobiphenyl (BZ-139) | | |
| | | 9140 | 2,2',3,4,4',6'-Hexachlorobiphenyl (BZ-140) | | |
| | | 9142 | 2,2',3,4,4'-Pentachlorobiphenyl (BZ-85) | | |
| | | 9143 | 2,2',3,4,5,5',6-Heptachlorobiphenyl (BZ-185) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9080 | 2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187) | | |
| | | 9030 | 2,2',3,4,5,5'-Hexachlorobiphenyl (BZ-141) | | |
| | | 9144 | 2,2',3,4',5,5'-Hexachlorobiphenyl (BZ-146) | | |
| | | 9145 | 2,2',3,4,5,6,6'-Heptachlorobiphenyl (BZ-186) | | |
| | | 9146 | 2,2',3,4',5,6,6'-Heptachlorobiphenyl (BZ-188) | | |
| | | 9148 | 2,2',3,4,5,6-Hexachlorobiphenyl (BZ-142) | | |
| | | 9152 | 2,2',3,4,5,6'-Hexachlorobiphenyl (BZ-143) | | |
| | | 9150 | 2,2',3,4,5',6-Hexachlorobiphenyl (BZ-144) | | |
| | | 9149 | 2,2',3,4',5,6-Hexachlorobiphenyl (BZ-147) | | |
| | | 9147 | 2,2',3,4',5,6'-Hexachlorobiphenyl (BZ-148) | | |
| | | 9151 | 2,2',3,4',5',6-Hexachlorobiphenyl (BZ-149) | | |
| | | 9153 | 2,2',3,4,5-Pentachlorobiphenyl (BZ-86) | | |
| | | 8975 | 2,2',3,4,5'-Pentachlorobiphenyl (BZ-87) | | |
| | | 9155 | 2,2',3,4',5-Pentachlorobiphenyl (BZ-90) | | |
| | | 9154 | 2,2',3,4',5'-Pentachlorobiphenyl (BZ-97) | | |
| | | 9156 | 2,2',3,4,6,6'-Hexachlorobiphenyl (BZ-145) | | |
| | | 9157 | 2,2',3,4',6,6'-Hexachlorobiphenyl (BZ-150) | | |
| | | 9158 | 2,2',3,4,6-Pentachlorobiphenyl (BZ-88) | | |
| | | 9161 | 2,2',3,4,6'-Pentachlorobiphenyl (BZ-89) | | |
| | | 9160 | 2,2',3,4',6-Pentachlorobiphenyl (BZ-91) | | |
| | | 9159 | 2,2',3,4',6'-Pentachlorobiphenyl (BZ-98) | | |
| | | 9163 | 2,2',3,4-Tetrachlorobiphenyl (BZ-41) | | |
| | | 9162 | 2,2',3,4'-Tetrachlorobiphenyl (BZ-42) | | |

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|---|---|---|---|---|---|
| | | 9035 | 2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151) | | |
| | | 9164 | 2,2',3,5,5'-Pentachlorobiphenyl (BZ-92) | | |
| | | 9165 | 2,2',3,5,6,6'-Hexachlorobiphenyl (BZ-152) | | |
| | | 9168 | 2,2',3,5,6-Pentachlorobiphenyl (BZ-93) | | |
| | | 9167 | 2,2',3,5,6'-Pentachlorobiphenyl (BZ-94) | | |
| | | 9166 | 2,2',3,5',6-Pentachlorobiphenyl (BZ-95) | | |
| | | 9169 | 2,2',3,5-Tetrachlorobiphenyl (BZ-43) | | |
| | | 8945 | 2,2',3,5'-Tetrachlorobiphenyl (BZ-44) | | |
| | | 9170 | 2,2',3,6,6'-Pentachlorobiphenyl (BZ-96) | | |
| | | 9172 | 2,2',3,6-Tetrachlorobiphenyl (BZ-45) | | |
| | | 9171 | 2,2',3,6'-Tetrachlorobiphenyl (BZ-46) | | |
| | | 9173 | 2,2',3-Trichlorobiphenyl (BZ-16) | | |
| | | 9040 | 2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153) | | |
| | | 9174 | 2,2',4,4',5,6'-Hexachlorobiphenyl (BZ-154) | | |
| | | 9175 | 2,2',4,4',5-Pentachlorobiphenyl (BZ-99) | | |
| | | 9176 | 2,2',4,4',6,6'-Hexachlorobiphenyl (BZ-155) | | |
| | | 9177 | 2,2',4,4',6-Pentachlorobiphenyl (BZ-100) | | |
| | | 9178 | 2,2',4,4'-Tetrachlorobiphenyl (BZ-47) | | |
| | | 8980 | 2,2',4,5,5'-Pentachlorobiphenyl (BZ-101) | | |
| | | 9180 | 2,2',4,5,6'-Pentachlorobiphenyl (BZ-102) | | |
| | | 9179 | 2,2',4,5',6-Pentachlorobiphenyl (BZ-103) | | |
| | | 9181 | 2,2',4,5-Tetrachlorobiphenyl (BZ-48) | | |
| | | 8950 | 2,2',4,5'-Tetrachlorobiphenyl (BZ-49) | | |
| | | 9182 | 2,2',4,6,6'-Pentachlorobiphenyl (BZ-104) | | |
| | | 9184 | 2,2',4,6-Tetrachlorobiphenyl (BZ-50) | | |

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|---|---|---|---|---|---|
| | | 9183 | 2,2',4,6'-Tetrachlorobiphenyl (BZ-51) | | |
| | | 9185 | 2,2',4-Trichlorobiphenyl (BZ-17) | | |
| | | 8955 | 2,2',5,5'-Tetrachlorobiphenyl (BZ-52) | | |
| | | 9186 | 2,2',5,6'-Tetrachlorobiphenyl (BZ-53) | | |
| | | 8930 | 2,2',5-Trichlorobiphenyl (BZ-18) | | |
| | | 9187 | 2,2',6,6'-Tetrachlorobiphenyl (BZ-54) | | |
| | | 9188 | 2,2',6-Trichlorobiphenyl (BZ-19) | | |
| | | 9189 | 2,2'-Dichlorobiphenyl (BZ-4) | | |
| | | 9190 | 2,3,3',4,4',5,5',6-Octachlorobiphenyl (BZ-205) | | |
| | | 9085 | 2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ-189) | | |
| | | 9191 | 2,3,3',4,4',5,6-Heptachlorobiphenyl (BZ-190) | | |
| | | 9192 | 2,3,3',4,4',5',6-Heptachlorobiphenyl (BZ-191) | | |
| | | 9050 | 2,3,3',4,4',5-Hexachlorobiphenyl (BZ-156) | | |
| | | 9045 | 2,3,3',4,4',5'-Hexachlorobiphenyl (BZ-157) | | |
| | | 9193 | 2,3,3',4,4',6-Hexachlorobiphenyl (BZ-158) | | |
| | | 8985 | 2,3,3',4,4'-Pentachlorobiphenyl (BZ-105) | | |
| | | 9194 | 2,3,3',4,5,5',6-Heptachlorobiphenyl (BZ-192) | | |
| | | 9195 | 2,3,3',4',5,5',6-Heptachlorobiphenyl (BZ-193) | | |
| | | 9196 | 2,3,3',4,5,5'-Hexachlorobiphenyl (BZ-159) | | |
| | | 9197 | 2,3,3',4',5,5'-Hexachlorobiphenyl (BZ-162) | | |
| | | 9198 | 2,3,3',4,5,6-Hexachlorobiphenyl (BZ-160) | | |
| | | 9199 | 2,3,3',4',5,6-Hexachlorobiphenyl (BZ-163) | | |
| | | 9201 | 2,3,3',4',5',6-Hexachlorobiphenyl (BZ- | | |

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|---|---|---|---|---|---|
| | | | 164) | | |
| | | 9200 | 2,3,3',4,5',6-Hexachlorobiphenyl (BZ-161) | | |
| | | 9204 | 2,3,3',4,5-Pentachlorobiphenyl (BZ-106) | | |
| | | 9205 | 2,3,3',4',5-Pentachlorobiphenyl (BZ-107) | | |
| | | 9203 | 2,3,3',4,5'-Pentachlorobiphenyl (BZ-108) | | |
| | | 9202 | 2,3,3',4',5'-Pentachlorobiphenyl (BZ-122) | | |
| | | 9206 | 2,3,3',4,6-Pentachlorobiphenyl (BZ-109) | | |
| | | 8990 | 2,3,3',4',6-Pentachlorobiphenyl (BZ-110) | | |
| | | 9208 | 2,3,3',4-Tetrachlorobiphenyl (BZ-55) | | |
| | | 9207 | 2,3,3',4'-Tetrachlorobiphenyl (BZ-56) | | |
| | | 9209 | 2,3,3',5,5',6-Hexachlorobiphenyl (BZ-165) | | |
| | | 9210 | 2,3,3',5,5'-Pentachlorobiphenyl (BZ-111) | | |
| | | 9211 | 2,3,3',5,6-Pentachlorobiphenyl (BZ-112) | | |
| | | 9212 | 2,3,3',5',6-Pentachlorobiphenyl (BZ-113) | | |
| | | 9214 | 2,3,3',5-Tetrachlorobiphenyl (BZ-57) | | |
| | | 9213 | 2,3,3',5'-Tetrachlorobiphenyl (BZ-58) | | |
| | | 9215 | 2,3,3',6-Tetrachlorobiphenyl (BZ-59) | | |
| | | 9216 | 2,3,3'-Trichlorobiphenyl (BZ-20) | | |
| | | 9055 | 2,3',4,4',5,5'-Hexachlorobiphenyl (BZ-167) | | |
| | | 9217 | 2,3,4,4',5,6-Hexachlorobiphenyl (BZ-166) | | |
| | | 9218 | 2,3',4,4',5',6-Hexachlorobiphenyl (BZ-168) | | |
| | | 9005 | 2,3,4,4',5-Pentachlorobiphenyl (BZ-114) | | |
| | | 8995 | 2,3',4,4',5-Pentachlorobiphenyl (BZ- | | |

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr., Suite 1

El Dorado Hills, CA 95762


**ORELAP ID:** 4049

**EPA CODE:** CA01612

**Certificate:** 4049 - 009

Issue Date: 2/14/2021 Expiration Date: 2/13/2022

**As of 2/14/2021 this list supersedes all previous lists for this certificate number.**

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | | 118) | | |
| | | 9000 | 2,3',4,4',5'-Pentachlorobiphenyl (BZ-123) | | |
| | | 9219 | 2,3,4,4',6-Pentachlorobiphenyl (BZ-115) | | |
| | | 9220 | 2,3',4,4',6-Pentachlorobiphenyl (BZ-119) | | |
| | | 9221 | 2,3,4,4'-Tetrachlorobiphenyl (BZ-60) | | |
| | | 8960 | 2,3',4,4'-Tetrachlorobiphenyl (BZ-66) | | |
| | | 9223 | 2,3',4,5,5'-Pentachlorobiphenyl (BZ-120) | | |
| | | 9222 | 2,3',4',5,5'-Pentachlorobiphenyl (BZ-124) | | |
| | | 9225 | 2,3,4,5,6-Pentachlorobiphenyl (BZ-116) | | |
| | | 9227 | 2,3,4',5,6-Pentachlorobiphenyl (BZ-117) | | |
| | | 9226 | 2,3',4,5',6-Pentachlorobiphenyl (BZ-121) | | |
| | | 9224 | 2,3',4',5',6-Pentachlorobiphenyl (BZ-125) | | |
| | | 9228 | 2,3,4,5-Tetrachlorobiphenyl (BZ-61) | | |
| | | 9233 | 2,3,4',5-Tetrachlorobiphenyl (BZ-63) | | |
| | | 9231 | 2,3',4,5'-Tetrachlorobiphenyl (BZ-68) | | |
| | | 9230 | 2,3',4',5-Tetrachlorobiphenyl (BZ-70) | | |
| | | 9229 | 2,3',4',5'-Tetrachlorobiphenyl (BZ-76) | | |
| | | 9232 | 2,3',4,5-Tetrachlorobiphenyl (BZ-67) | | |
| | | 9234 | 2,3,4,6-Tetrachlorobiphenyl (BZ-62) | | |
| | | 9236 | 2,3,4',6-Tetrachlorobiphenyl (BZ-64) | | |
| | | 9235 | 2,3',4,6-Tetrachlorobiphenyl (BZ-69) | | |
| | | 9237 | 2,3',4',6-Tetrachlorobiphenyl (BZ-71) | | |
| | | 9238 | 2,3,4-Trichlorobiphenyl (BZ-21) | | |
| | | 9241 | 2,3,4'-Trichlorobiphenyl (BZ-22) | | |
| | | 9240 | 2,3',4-Trichlorobiphenyl (BZ-25) | | |
| | | 9239 | 2,3',4'-Trichlorobiphenyl (BZ-33) | | |
| | | 9242 | 2,3',5,5'-Tetrachlorobiphenyl (BZ-72) | | |
| | | 9243 | 2,3,5,6-Tetrachlorobiphenyl (BZ-65) | | |

Ceres Analytical Laboratory, Inc.

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9244 | 2,3',5',6-Tetrachlorobiphenyl (BZ-73) | | |
| | | 9245 | 2,3,5-Trichlorobiphenyl (BZ-23) | | |
| | | 8935 | 2,3',5-Trichlorobiphenyl (BZ-26) | | |
| | | 9246 | 2,3',5'-Trichlorobiphenyl (BZ-34) | | |
| | | 9247 | 2,3,6-Trichlorobiphenyl (BZ-24) | | |
| | | 9248 | 2,3',6-Trichlorobiphenyl (BZ-27) | | |
| | | 8920 | 2,3-Dichlorobiphenyl (BZ-5) | | |
| | | 9249 | 2,3'-Dichlorobiphenyl (BZ-6) | | |
| | | 9250 | 2,4,4',5-Tetrachlorobiphenyl (BZ-74) | | |
| | | 9251 | 2,4,4',6-Tetrachlorobiphenyl (BZ-75) | | |
| | | 9252 | 2,4,4'-Trichlorobiphenyl (BZ-28) | | |
| | | 9253 | 2,4,5-Trichlorobiphenyl (BZ-29) | | |
| | | 8940 | 2,4',5-Trichlorobiphenyl (BZ-31) | | |
| | | 9254 | 2,4,6-Trichlorobiphenyl (BZ-30) | | |
| | | 9255 | 2,4',6-Trichlorobiphenyl (BZ-32) | | |
| | | 9257 | 2,4-Dichlorobiphenyl (BZ-7) | | |
| | | 9256 | 2,4'-Dichlorobiphenyl (BZ-8) | | |
| | | 9258 | 2,5-Dichlorobiphenyl (BZ-9) | | |
| | | 9259 | 2,6-Dichlorobiphenyl (BZ-10) | | |
| | | 8915 | 2-Chlorobiphenyl (BZ-1) | | |
| | | 9060 | 3,3',4,4',5,5'-Hexachlorobiphenyl (BZ-169) | | |
| | | 9015 | 3,3',4,4',5-Pentachlorobiphenyl (BZ-126) | | |
| | | 8965 | 3,3',4,4'-Tetrachlorobiphenyl (BZ-77) | | |
| | | 9260 | 3,3',4,5,5'-Pentachlorobiphenyl (BZ-127) | | |
| | | 9262 | 3,3',4,5-Tetrachlorobiphenyl (BZ-78) | | |
| | | 9261 | 3,3',4,5'-Tetrachlorobiphenyl (BZ-79) | | |
| | | 9263 | 3,3',4-Trichlorobiphenyl (BZ-35) | | |
| | | 9264 | 3,3',5,5'-Tetrachlorobiphenyl (BZ-80) | | |
| | | 9265 | 3,3',5-Trichlorobiphenyl (BZ-36) | | |
| | | 8925 | 3,3'-Dichlorobiphenyl (BZ-11) | | |

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| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 8970 | 3,4,4',5-Tetrachlorobiphenyl (BZ-81) | | |
| | | 9266 | 3,4,4'-Trichlorobiphenyl (BZ-37) | | |
| | | 9267 | 3,4,5-Trichlorobiphenyl (BZ-38) | | |
| | | 9268 | 3,4',5-Trichlorobiphenyl (BZ-39) | | |
| | | 9270 | 3,4-Dichlorobiphenyl (BZ-12) | | |
| | | 9269 | 3,4'-Dichlorobiphenyl (BZ-13) | | |
| | | 9271 | 3,5-Dichlorobiphenyl (BZ-14) | | |
| | | 9272 | 3-Chlorobiphenyl (BZ-2) | | |
| | | 9273 | 4,4'-Dichlorobiphenyl (BZ-15) | | |
| | | 9274 | 4-Chlorobiphenyl (BZ-3) | | |
| | | 9105 | Decachlorobiphenyl (BZ-209) | | |
| | | 8876 | Total Dichlorobiphenyls | | |
| | | 8877 | Total Heptachlorobiphenyls | | |
| | | 8888 | Total Hexachlorobiphenyls | | |
| | | 8889 | Total Monochlorobiphenyls | | |
| | | 8891 | Total Nonachlorobiphenyls | | |
| | | 8892 | Total Octachlorobiphenyls | | |
| | | 8896 | Total Pentachlorobiphenyls | | |
| | | 8893 | Total Tetrachlorobiphenyls | | |
| | | 8894 | Total Trichlorobiphenyls | | |
| | EPA 8290A | | | 10187403 | Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS |
| | | 9516 | 1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF) | | |
| | | 9519 | 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD) | | |
| | | 9420 | 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf) | | |
| | | 9426 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd) | | |
| | | 9423 | 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf) | | |
| | | 9471 | 1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-Hxcdf) | | |

# OREGON

## Environmental Laboratory Accreditation Program

## ORELAP Fields of Accreditation

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

**ORELAP ID:** 4049
**EPA CODE:** CA01612
**Certificate:** 4049 - 009

Issue Date: 2/14/2021 Expiration Date: 2/13/2022

**As of 2/14/2021 this list supersedes all previous lists for this certificate number.**

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---|---|---|---|---|---|
| | | 9453 | 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-Hxcdd) | | |
| | | 9474 | 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-Hxcdf) | | |
| | | 9456 | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin(1,2,3,6,7,8-Hxcdd) | | |
| | | 9477 | 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-Hxcdf) | | |
| | | 9459 | 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-Hxcdd) | | |
| | | 9543 | 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-Pecdf) | | |
| | | 9540 | 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-Pecdd) | | |
| | | 9480 | 2,3,4,6,7,8-Hexachlorodibenzofuran | | |
| | | 9549 | 2,3,4,7,8-Pentachlorodibenzofuran | | |
| | | 9618 | 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) | | |
| | | 9612 | 2,3,7,8-Tetrachlorodibenzofuran | | |
| | | 9438 | Hpcdd, total | | |
| | | 9444 | Hpcdf, total | | |
| | | 9468 | Hxcdd, total | | |
| | | 9483 | Hxcdf, total | | |
| | | 9555 | Pecdd, total | | |
| | | 9552 | Pecdf, total | | |
| | | 9609 | TCDD, total | | |
| | | 9615 | TCDF, total | | |

# OREGON

## Environmental Laboratory Accreditation Program

## ORELAP Fields of Accreditation

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr., Suite 1
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**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**Enthalpy Analytical, LLC**

Orange

931 West Barkley Avenue

Orange, CA 92868

Phone: (714) 771-6900

**Certificate No.** **1338**

**Expiration Date** **10/31/2021** **INTERIM**

***As of 11/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 101 – Microbiology of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.010 | 002 | Heterotrophic Bacteria | SimPlate |
| 101.020 | 004 | Total Coliform (Enumeration) | SM 9221 B, C |
| 101.020 | 005 | Fecal Coliform (Enumeration) | SM 9221 B, E |
| 101.020 | 006 | E. coli (Enumeration) | SM 9221 B, F |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert |
| 101.050 | 005 | Total Coliform P/A | SM 9223 B Colilert 18 |
| 101.050 | 006 | E. coli P/A | SM 9223 B Colilert 18 |
| 101.050 | 007 | Total Coliform (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 008 | E. coli (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 009 | Total Coliform P/A | SM 9223 B Colisure |
| 101.050 | 010 | E. coli P/A | SM 9223 B Colisure |
| 101.050 | 011 | Total Coliform (Enumeration) | SM 9223 B Colisure |
| 101.050 | 012 | E. coli (Enumeration) | SM 9223 B Colisure |

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.015 | 001 | Hydrogen Ion (pH) | EPA 150.1 |
| 102.020 | 001 | Turbidity | EPA 180.1 |
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 004 | Silica | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.026 | 006 | Hardness (Calculation) | EPA 200.7 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.045 | 001 | Perchlorate | EPA 314.0 |
| 102.050 | 001 | Cyanide, Total | EPA 335.4 |
| 102.095 | 001 | Turbidity | SM 2130 B-2001 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.120 | 001 | Hardness (Calculation) | SM 2340 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.190 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 102.192 | 001 | Cyanide, Amenable | SM 4500-CN G-1999 |
| 102.200 | 001 | Fluoride | SM 4500-F C-1997 |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 102.234 | 001 | Nitrite (as N) | SM 4500-NO3 F-2000 |
| 102.234 | 002 | Nitrate (as N) | SM 4500-NO3 F-2000 |
| 102.240 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-1999 |
| 102.242 | 001 | Silica | SM 4500-SiO2 C-1997 |
| 102.243 | 001 | Silica | SM 4500-SiO2 D-1997 |
| 102.260 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2000 |
| 102.261 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 B-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 103 – Toxic Chemical Elements of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 017 | Boron | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |
| 103.310 | 001 | Chromium VI (Hexavalent Chromium) | EPA 218.6 |
| 103.311 | 001 | Chromium VI (Hexavalent Chromium) | EPA 218.7 |

**Field of Testing:** 104 – Volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.040 | 025 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethylene (cis 1,2-Dichloroethene) | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene) | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropylene (cis 1,3-Dichloropropene) | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropylene (trans-1,3-Dichloropropene) | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethylene (Trichloroethene) | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 059 | o-Xylene | EPA 524.2 |
| 104.040 | 061 | Carbon Disulfide | EPA 524.2 |
| 104.040 | 062 | Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | EPA 524.2 |
| 104.040 | 063 | m+p-Xylene | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane (Freon 113) | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 107 – Microbiological Methods for Non-Potable Water and Sewage Sludge

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 107.001 | 001 | Total Coliform (Enumeration) | SM 9221 B, C-2006 |
| 107.001 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 107.001 | 003 | E. coli (Enumeration) | SM 9221 C, F-2006 |
| 107.005 | 001 | E. coli (Enumeration) | SM 9223 B-2004 |
| 107.007 | 001 | Enterococci | SM 9230 B-2007 |
| 107.007 | 002 | Fecal Streptococci | SM 9230 B-2007 |
| 107.011 | 001 | Enterococci | SM 9230 D-2007 |
| 107.013 | 001 | E. coli (Enumeration) | Colilert |
| 107.015 | 001 | E. coli (Enumeration) | Colilert 18 |
| 107.015 | 002 | Fecal Coliform (Enumeration) | Colilert 18 |

**Field of Testing:** 108 – Inorganic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.001 | 001 | Specific Conductance | EPA 120.1 (1982 Rev.1.0) |
| 108.007 | 001 | Residue, Volatile | EPA 160.4 (1971) |
| 108.009 | 001 | Turbidity | EPA 180.1 (1993 Rev. 2.0) |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 005 | Silica, Dissolved | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) |
| 108.015 | 001 | Calcium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 002 | Magnesium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 003 | Potassium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 005 | Sodium | EPA 200.8 (1994 Rev. 5.4) |
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) |
| 108.023 | 001 | Cyanide, Total | EPA 335.4 (1993 Rev. 1.0) |
| 108.025 | 001 | Ammonia (as N) | EPA 350.1 (1993 Rev. 2.0) |
| 108.029 | 001 | Kjeldahl Nitrogen, Total (as N) | EPA 351.2 (1993 Rev. 2.0) |
| 108.033 | 001 | Nitrate-Nitrite (as N) | EPA 353.2 (1993 Rev. 2.0) |
| 108.033 | 002 | Nitrite (as N) | EPA 353.2 (1993 Rev. 2.0) |
| 108.045 | 001 | Chemical Oxygen Demand | EPA 410.4 (1993 Rev. 2.0) |
| 108.047 | 001 | Phenols, Total | EPA 420.1 (1978 Rev. 1.0) |
| 108.053 | 001 | Oil & Grease Total | EPA 1664 A |
| 108.055 | 001 | Color | SM 2120 B-2011 |
| 108.059 | 001 | Turbidity | SM 2130 B-2011 |
| 108.061 | 001 | Acidity | SM 2310 B-2011 |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 |
| 108.065 | 001 | Hardness (Calculation) | SM 2340 B-2011 |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 |
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 |
| 108.077 | 001 | Residue, Volatile | SM 2540 E-2011 |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 |
| 108.114 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2011 |
| 108.114 | 002 | Chlorine, Free | SM 4500-Cl G-2011 |
| 108.125 | 001 | Cyanide, Total | SM 4500-CN E-2011 |
| 108.129 | 001 | Cyanide, Available | SM 4500-CN G-2011 |
| 108.131 | 001 | Fluoride | SM 4500-F C-2011 |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 |
| 108.139 | 001 | Ammonia (as N) | SM 4500-NH3 C-2011 |
| 108.139 | 002 | Kjeldahl Nitrogen, Total (as N) | SM 4500-NH3 C-2011 |
| 108.147 | 001 | Ammonia (as N) | SM 4500-NH3 G-2011 |
| 108.147 | 002 | Kjeldahl Nitrogen, Total (as N) | SM 4500-NH3 G-2011 |
| 108.159 | 001 | Nitrate-Nitrite (as N) | SM 4500-NO3 F-2011 |
| 108.159 | 002 | Nitrite (as N) | SM 4500-NO3 F-2011 |
| 108.173 | 001 | Oxygen, Dissolved | SM 4500-O G-2011 |
| 108.175 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-2011 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.175 | 002 | Phosphorus, Total | SM 4500-P E-2011 |
| 108.184 | 001 | Silica, Dissolved | SM 4500-SiO2 C-2011 |
| 108.189 | 001 | Sulfite (as SO3) | SM 4500-SO3 B-2011 |
| 108.201 | 001 | Sulfide (as S) | SM 4500-S D-2011 |
| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 |
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 |
| 108.213 | 001 | Chemical Oxygen Demand | SM 5220 D-2011 |
| 108.215 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2011 |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 002 | Antimony | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 003 | Arsenic | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 004 | Barium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 005 | Beryllium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 007 | Cadmium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 008 | Chromium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 009 | Cobalt | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 010 | Copper | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 012 | Lead | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 013 | Manganese | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 014 | Molybdenum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 015 | Nickel | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 016 | Selenium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 017 | Silver | EPA 200.7 (1994 Rev. 4.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 018 | Thallium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 019 | Tin | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 020 | Titanium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 021 | Vanadium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 022 | Zinc | EPA 200.7 (1994 Rev. 4.4) |
| 109.625 | 001 | Aluminum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 006 | Boron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 012 | Iron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 021 | Titanium | EPA 200.8 (1994 Rev. 5.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) |
| 109.629 | 001 | Chromium VI (Hexavalent Chromium) | EPA 218.6 (1994 Rev. 3.3) |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) |

**Field of Testing:** 110 – Volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 001 | Acetone | EPA 624.1 |
| 110.040 | 002 | Acetonitrile | EPA 624.1 |
| 110.040 | 003 | Acrolein | EPA 624.1 |
| 110.040 | 004 | Acrylonitrile | EPA 624.1 |
| 110.040 | 005 | Benzene | EPA 624.1 |
| 110.040 | 006 | Bromodichloromethane | EPA 624.1 |
| 110.040 | 007 | Bromoform | EPA 624.1 |
| 110.040 | 008 | Bromomethane (Methyl Bromide) | EPA 624.1 |
| 110.040 | 009 | tert-Butyl Alcohol (TBA) | EPA 624.1 |
| 110.040 | 010 | Carbon Tetrachloride | EPA 624.1 |
| 110.040 | 011 | Chlorobenzene | EPA 624.1 |
| 110.040 | 012 | Chloroethane | EPA 624.1 |
| 110.040 | 013 | 2-Chloroethyl vinyl Ether | EPA 624.1 |
| 110.040 | 014 | Chloroform | EPA 624.1 |
| 110.040 | 015 | Chloromethane (Methyl Chloride) | EPA 624.1 |
| 110.040 | 016 | Dibromochloromethane (Chlorodibromomethane) | EPA 624.1 |
| 110.040 | 017 | 1,2-Dichlorobenzene | EPA 624.1 |
| 110.040 | 018 | 1,3-Dichlorobenzene | EPA 624.1 |
| 110.040 | 019 | 1,4-Dichlorobenzene | EPA 624.1 |
| 110.040 | 020 | 1,1-Dichloroethane | EPA 624.1 |
| 110.040 | 021 | 1,2-Dichloroethane | EPA 624.1 |
| 110.040 | 022 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 624.1 |
| 110.040 | 023 | trans-1,2-Dichloroethylene (trans-1,2 Dichloroethene) | EPA 624.1 |
| 110.040 | 024 | 1,2-Dichloropropane | EPA 624.1 |
| 110.040 | 025 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 624.1 |
| 110.040 | 026 | trans-1,3-Dichloropropylene (trans-1,3 Dichloropropene) | EPA 624.1 |
| 110.040 | 029 | Ethylbenzene | EPA 624.1 |
| 110.040 | 031 | Methylene Chloride (Dichloromethane) | EPA 624.1 |
| 110.040 | 032 | 4-Methyl-2-pentanone (MIBK) | EPA 624.1 |
| 110.040 | 034 | 1,1,2,2-Tetrachloroethane | EPA 624.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 035 | Tetrachloroethylene (Tetrachloroethene) | EPA 624.1 |
| 110.040 | 037 | Toluene | EPA 624.1 |
| 110.040 | 038 | 1,1,1-Trichloroethane | EPA 624.1 |
| 110.040 | 039 | 1,1,2-Trichloroethane | EPA 624.1 |
| 110.040 | 040 | Trichloroethylene (Trichloroethene) | EPA 624.1 |
| 110.040 | 041 | Vinyl Chloride | EPA 624.1 |
| 110.040 | 043 | o-Xylene | EPA 624.1 |
| 110.040 | 045 | Trichlorofluoromethane | EPA 624.1 |
| 110.040 | 046 | m+p-Xylene | EPA 624.1 |
| 110.040 | 047 | 2-Butanone (MEK) | EPA 624.1 |

**Field of Testing:** 111 – Semi-volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.055 | 001 | Aldrin | EPA 608.3 |
| 111.055 | 002 | alpha-BHC | EPA 608.3 |
| 111.055 | 003 | beta-BHC | EPA 608.3 |
| 111.055 | 004 | delta-BHC | EPA 608.3 |
| 111.055 | 005 | gamma-BHC (Lindane) | EPA 608.3 |
| 111.055 | 006 | Chlordane | EPA 608.3 |
| 111.055 | 007 | 4,4'-DDD | EPA 608.3 |
| 111.055 | 008 | 4,4'-DDE | EPA 608.3 |
| 111.055 | 009 | 4,4'-DDT | EPA 608.3 |
| 111.055 | 010 | Dieldrin | EPA 608.3 |
| 111.055 | 011 | Endosulfan I | EPA 608.3 |
| 111.055 | 012 | Endosulfan II | EPA 608.3 |
| 111.055 | 013 | Endosulfan Sulfate | EPA 608.3 |
| 111.055 | 014 | Endrin | EPA 608.3 |
| 111.055 | 015 | Endrin Aldehyde | EPA 608.3 |
| 111.055 | 016 | Heptachlor | EPA 608.3 |
| 111.055 | 017 | Heptachlor Epoxide | EPA 608.3 |
| 111.055 | 019 | PCB-1016 | EPA 608.3 |
| 111.055 | 020 | PCB-1221 | EPA 608.3 |
| 111.055 | 021 | PCB-1232 | EPA 608.3 |
| 111.055 | 022 | PCB-1242 | EPA 608.3 |
| 111.055 | 023 | PCB-1248 | EPA 608.3 |
| 111.055 | 024 | PCB-1254 | EPA 608.3 |
| 111.055 | 025 | PCB-1260 | EPA 608.3 |
| 111.160 | 001 | Acenaphthene | EPA 625.1 |
| 111.160 | 002 | Acenaphthylene | EPA 625.1 |
| 111.160 | 003 | Anthracene | EPA 625.1 |
| 111.160 | 004 | Benzidine | EPA 625.1 |
| 111.160 | 005 | Benzo(a)anthracene | EPA 625.1 |
| 111.160 | 006 | Benzo(a)pyrene | EPA 625.1 |
| 111.160 | 007 | Benzo(b)fluoranthene | EPA 625.1 |
| 111.160 | 008 | Benzo(g,h,i)perylene | EPA 625.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.160 | 009 | Benzo(k)fluoranthene | EPA 625.1 |
| 111.160 | 010 | Bis(2-chloroethoxy) Methane | EPA 625.1 |
| 111.160 | 011 | Bis(2-chloroethyl) Ether | EPA 625.1 |
| 111.160 | 012 | Bis(2-Chloroisopropyl) ether | EPA 625.1 |
| 111.160 | 013 | Bis(2-ethylhexyl)phthalate | EPA 625.1 |
| 111.160 | 014 | 4-Bromophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 015 | Butyl Benzyl Phthalate | EPA 625.1 |
| 111.160 | 016 | 2-Chloronaphthalene | EPA 625.1 |
| 111.160 | 017 | 4-Chlorophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 018 | Chrysene | EPA 625.1 |
| 111.160 | 019 | Dibenz(a,h)anthracene | EPA 625.1 |
| 111.160 | 020 | 3,3'-Dichlorobenzidine | EPA 625.1 |
| 111.160 | 021 | Diethyl Phthalate | EPA 625.1 |
| 111.160 | 022 | Dimethyl Phthalate | EPA 625.1 |
| 111.160 | 023 | Di-n-butyl Phthalate | EPA 625.1 |
| 111.160 | 024 | 2,4-Dinitrotoluene | EPA 625.1 |
| 111.160 | 025 | 2,6-Dinitrotoluene | EPA 625.1 |
| 111.160 | 026 | Di-n-octyl Phthalate | EPA 625.1 |
| 111.160 | 027 | Fluoranthene | EPA 625.1 |
| 111.160 | 028 | Fluorene | EPA 625.1 |
| 111.160 | 029 | Hexachlorobenzene | EPA 625.1 |
| 111.160 | 030 | Hexachlorobutadiene | EPA 625.1 |
| 111.160 | 031 | Hexachloroethane | EPA 625.1 |
| 111.160 | 032 | Indeno(1,2,3-c,d)pyrene | EPA 625.1 |
| 111.160 | 033 | Isophorone | EPA 625.1 |
| 111.160 | 034 | Naphthalene | EPA 625.1 |
| 111.160 | 035 | Nitrobenzene | EPA 625.1 |
| 111.160 | 036 | N-nitrosodi-n-propylamine | EPA 625.1 |
| 111.160 | 037 | Phenanthrene | EPA 625.1 |
| 111.160 | 038 | Pyrene | EPA 625.1 |
| 111.160 | 039 | 1,2,4-Trichlorobenzene | EPA 625.1 |
| 111.160 | 040 | 4-Chloro-3-methylphenol | EPA 625.1 |
| 111.160 | 041 | 2-Chlorophenol | EPA 625.1 |
| 111.160 | 042 | 2,4-Dichlorophenol | EPA 625.1 |
| 111.160 | 043 | 2,4-Dimethylphenol | EPA 625.1 |
| 111.160 | 044 | 2,4-Dinitrophenol | EPA 625.1 |
| 111.160 | 045 | 2-Methyl-4,6-dinitrophenol | EPA 625.1 |
| 111.160 | 046 | 2-Nitrophenol | EPA 625.1 |
| 111.160 | 047 | 4-Nitrophenol | EPA 625.1 |
| 111.160 | 048 | Pentachlorophenol | EPA 625.1 |
| 111.160 | 049 | Phenol | EPA 625.1 |
| 111.160 | 050 | 2,4,6-Trichlorophenol | EPA 625.1 |
| 111.160 | 108 | N-nitrosodimethylamine | EPA 625.1 |
| 111.160 | 110 | N-nitrosodiphenylamine | EPA 625.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.160 | 143 | 1,2-Diphenylhydrazine | EPA 625.1 |
| 111.160 | 145 | Pyridine | EPA 625.1 |
| 111.160 | 151 | 2,4,5-Trichlorophenol | EPA 625.1 |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.103 | 001 | Chromium VI (Hexavalent Chromium) | EPA 7196 A |
| 114.106 | 001 | Chromium VI (Hexavalent Chromium) | EPA 7199 |
| 114.140 | 001 | Mercury | EPA 7470 A |
| 114.221 | 001 | Cyanide, Total | EPA 9012 A |
| 114.222 | 001 | Cyanide, Total | EPA 9014 |
| 114.240 | 001 | Corrosivity | EPA 9040 B |
| 114.241 | 001 | Corrosivity | EPA 9045 C |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.250 | 001 | Fluoride | EPA 9056 |
| 114.270 | 001 | Fluoride | EPA 9214 |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 |
| 115.022 | 001 | TCLP Extractables | EPA 1311 |
| 115.023 | 001 | TCLP Volatiles | EPA 1311 |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |
| 115.040 | 001 | Synthetic Precipitation Leaching Procedure (SPLP) | EPA 1312 |

**Field of Testing:** 116 – Volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 116.030 | 001 | Gasoline Range Organics (GRO) | EPA 8015 B |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.080 | 120 | Oxygenates | EPA 8260 B |
| 116.100 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT GC/MS |
| 116.110 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.010 | 001 | Diesel Range Organics (DRO) | EPA 8015 B |
| 117.016 | 001 | Diesel Range Organics (DRO) | LUFT |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.220 | 000 | PCBs | EPA 8082 |

**Field of Testing:** 120 – Physical Properties of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.022 | 001 | Ignitability | EPA 1030 |
| 120.022 | 001 | Ignitability | EPA 1030 |

**Field of Testing:** 126 – Microbiological Methods for Ambient Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 126.003 | 001 | Total Coliform (Enumeration) | SM 9221 B, C-2006 |
| 126.003 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 126.003 | 003 | E. coli (Enumeration) | SM 9221 C, F-2006 |
| 126.007 | 001 | E. coli (Enumeration) | SM 9223 B-2004 |
| 126.009 | 001 | Fecal Streptococci | SM 9230 B-2007 |
| 126.013 | 001 | Enterococci | SM 9230 D-2007 |
| 126.015 | 001 | E. coli (Enumeration) | Colilert |
| 126.017 | 001 | E. coli (Enumeration) | Colilert 18 |
| 126.019 | 001 | Enterococci | Enterolert |

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

**Interim**

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

# CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

## Eurofins Calscience, LLC

7440 Lincoln Way

Garden Grove, CA 92841-1427

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2944**

Expiration Date: **9/30/2021**

Effective Date: **10/1/2020**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

**CALIFORNIA STATE**
**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**
**Accredited Fields of Testing**

**Eurofins Calscience, LLC**

7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 7148955494

**Certificate No.** **2944**
**Expiration Date** **9/30/2021**
**INTERIM**

| | | | |
|---|---|---|---|
| **Field of Testing:** 102 - Inorganic Chemistry of Drinking Water | | | |
| 102.040 | 003 | Chlorate | EPA 300.1 |
| 102.045 | 001 | Perchlorate | EPA 314.0 |
| 102.047 | 001 | Perchlorate | EPA 331.0 |
| 102.264 | 001 | Organic Carbon-Total (TOC) | SM 5310 D-2000 |
| 102.265 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 D-2000 |
| **Field of Testing:** 103 - Toxic Chemical Elements of Drinking Water | | | |
| 103.140 | 019 | Strontium | EPA 200.8 |
| **Field of Testing:** 104 - Volatile Organic Chemistry of Drinking Water | | | |
| 104.030 | 001 | 1,2-Dibromoethane (EDB) | EPA 504.1 |
| 104.030 | 002 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 504.1 |
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethylene (trans- 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropylene (trans-1,3 Dichloropropene) | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |

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|---|---|---|---|
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethylene (Trichloroethene) | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 059 | o-Xylene | EPA 524.2 |
| 104.040 | 063 | m+p-Xylene | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane (Freon 113) | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 105 - Semi-volatile Organic Chemistry of Drinking Water

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|---|---|---|---|
| 105.085 | 001 | 1,4-Dioxane | EPA 522 |

**Field of Testing:** 108 - Inorganic Constituents in Non-Potable Water

| | | | |
|---|---|---|---|
| 108.001 | 001 | Specific Conductance | EPA 120.1 (1982 Rev.1.0) |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 003 | Phosphorus,Total | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 005 | Silica, Dissolved | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) |
| 108.015 | 001 | Calcium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 002 | Magnesium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 003 | Potassium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 005 | Sodium | EPA 200.8 (1994 Rev. 5.4) |

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|---|---|---|---|
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 007 | Phosphate,Ortho (as P) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) |
| 108.025 | 001 | Ammonia (as N) | EPA 350.1 (1993 Rev. 2.0) |
| 108.029 | 001 | Kjeldahl Nitrogen,Total (as N) | EPA 351.2 (1993 Rev. 2.0) |
| 108.035 | 001 | Phosphate,Ortho (as P) | EPA 365.1 (1993 Rev. 2.0) |
| 108.035 | 002 | Phosphorus,Total | EPA 365.1 (1993 Rev. 2.0) |
| 108.045 | 001 | Chemical Oxygen Demand | EPA 410.4 (1993 Rev. 2.0) |
| 108.047 | 001 | Phenols, Total | EPA 420.1 (1978 Rev. 1.0) |
| 108.053 | 001 | Oil & Grease Total | EPA 1664 A |
| 108.055 | 001 | Color | SM 2120 B-2011 |
| 108.059 | 001 | Turbidity | SM 2130 B-2011 |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 |
| 108.065 | 001 | Hardness (Calculation) | SM 2340 B-2011 |
| 108.067 | 001 | Hardness | SM 2340 C-2011 |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 |
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 |
| 108.075 | 001 | Residue, Non-filterable TSS | SM 2540 D-2011 |
| 108.077 | 001 | Residue, Volatile | SM 2540 E-2011 |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 |
| 108.109 | 001 | Chlorine, Total Residual | SM 4500-Cl F-2011 |
| 108.117 | 001 | Chloride | SM 4500-Chloride C-2011 |
| 108.125 | 001 | Cyanide, Total | SM 4500-CN E-2011 |
| 108.131 | 001 | Fluoride | SM 4500-F C-2011 |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 |
| 108.139 | 001 | Ammonia (as N) | SM 4500-NH3 C-2011 |
| 108.139 | 002 | Kjeldahl Nitrogen,Total (as N) | SM 4500-NH3 C-2011 |
| 108.140 | 001 | Ammonia (as N) | SM 4500-NH3 D-2011 |
| 108.153 | 001 | Nitrite (as N) | SM 4500-NO2 B-2011 |
| 108.157 | 001 | Nitrate-Nitrite (as N) | SM 4500-NO3 E-2011 |
| 108.157 | 002 | Nitrite (as N) | SM 4500-NO3 E-2011 |
| 108.173 | 001 | Oxygen, Dissolved | SM 4500-O G-2011 |
| 108.175 | 001 | Phosphate,Ortho (as P) | SM 4500-P E-2011 |
| 108.175 | 002 | Phosphorus,Total | SM 4500-P E-2011 |
| 108.201 | 001 | Sulfide (as S) | SM 4500-S D-2011 |
| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 |

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|---|---|---|---|
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 |
| 108.219 | 001 | Organic Carbon-Total (TOC) | SM 5310 D-2011 |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 |

**Field of Testing:** 109 - Metals and Trace Elements in Non-Potable Water

| | | | |
|---|---|---|---|
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 002 | Antimony | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 003 | Arsenic | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 004 | Barium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 005 | Beryllium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 007 | Cadmium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 008 | Chromium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 009 | Cobalt | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 010 | Copper | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 012 | Lead | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 013 | Manganese | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 014 | Molybdenum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 015 | Nickel | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 016 | Selenium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 017 | Silver | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 018 | Thallium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 019 | Tin | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 020 | Titanium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 021 | Vanadium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 022 | Zinc | EPA 200.7 (1994 Rev. 4.4) |
| 109.625 | 001 | Aluminum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 006 | Boron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 012 | Iron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) |

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|---|---|---|---|
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 020 | Tin | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 021 | Titanium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) |
| 109.629 | 001 | Chromium VI (Hexavalent Chromium) | EPA 218.6 (1994 Rev. 3.3) |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) |
| 109.693 | 001 | Iron | SM 3500-Fe B-2011 |

**Field of Testing:** 110 - Volatile Organic Constituents in Non-Potable Water

| | | | |
|---|---|---|---|
| 110.020 | 001 | Benzene | EPA 602 |
| 110.020 | 006 | Ethylbenzene | EPA 602 |
| 110.020 | 007 | Toluene | EPA 602 |
| 110.040 | 001 | Acetone | EPA 624.1 |
| 110.040 | 003 | Acrolein | EPA 624.1 |
| 110.040 | 004 | Acrylonitrile | EPA 624.1 |
| 110.040 | 005 | Benzene | EPA 624.1 |
| 110.040 | 006 | Bromodichloromethane | EPA 624.1 |
| 110.040 | 007 | Bromoform | EPA 624.1 |
| 110.040 | 008 | Bromomethane (Methyl Bromide) | EPA 624.1 |
| 110.040 | 009 | tert-Butyl Alcohol (TBA) | EPA 624.1 |
| 110.040 | 010 | Carbon Tetrachloride | EPA 624.1 |
| 110.040 | 011 | Chlorobenzene | EPA 624.1 |
| 110.040 | 012 | Chloroethane | EPA 624.1 |
| 110.040 | 013 | 2-Chloroethyl vinyl Ether | EPA 624.1 |
| 110.040 | 014 | Chloroform | EPA 624.1 |
| 110.040 | 015 | Chloromethane (Methyl Chloride) | EPA 624.1 |
| 110.040 | 016 | Dibromochloromethane (Chlorodibromomethane) | EPA 624.1 |
| 110.040 | 017 | 1,2-Dichlorobenzene | EPA 624.1 |
| 110.040 | 018 | 1,3-Dichlorobenzene | EPA 624.1 |
| 110.040 | 019 | 1,4-Dichlorobenzene | EPA 624.1 |
| 110.040 | 020 | 1,1-Dichloroethane | EPA 624.1 |
| 110.040 | 021 | 1,2-Dichloroethane | EPA 624.1 |
| 110.040 | 022 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 624.1 |
| 110.040 | 023 | trans-1,2-Dichloroethylene (trans- 1,2 Dichloroethene) | EPA 624.1 |
| 110.040 | 024 | 1,2-Dichloropropane | EPA 624.1 |
| 110.040 | 025 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 624.1 |
| 110.040 | 026 | trans-1,3-Dichloropropylene (trans-1,3 Dichloropropene) | EPA 624.1 |
| 110.040 | 029 | Ethylbenzene | EPA 624.1 |
| 110.040 | 031 | Methylene Chloride (Dichloromethane) | EPA 624.1 |
| 110.040 | 032 | 4-Methyl-2-pentanone (MIBK) | EPA 624.1 |
| 110.040 | 034 | 1,1,2,2-Tetrachloroethane | EPA 624.1 |

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|---|---|---|---|
| 110.040 | 035 | Tetrachloroethylene (Tetrachloroethene) | EPA 624.1 |
| 110.040 | 037 | Toluene | EPA 624.1 |
| 110.040 | 038 | 1,1,1-Trichloroethane | EPA 624.1 |
| 110.040 | 039 | 1,1,2-Trichloroethane | EPA 624.1 |
| 110.040 | 040 | Trichloroethylene (Trichloroethene) | EPA 624.1 |
| 110.040 | 041 | Vinyl Chloride | EPA 624.1 |
| 110.040 | 043 | o-Xylene | EPA 624.1 |
| 110.040 | 045 | Trichlorofluoromethane | EPA 624.1 |
| 110.040 | 046 | m+p-Xylene | EPA 624.1 |
| 110.040 | 047 | 2-Butanone (MEK) | EPA 624.1 |

**Field of Testing:** 111 - Semi-volatile Organic Constituents in Non-Potable Water

| | | | |
|---|---|---|---|
| 111.055 | 001 | Aldrin | EPA 608.3 |
| 111.055 | 002 | alpha-BHC | EPA 608.3 |
| 111.055 | 003 | beta-BHC | EPA 608.3 |
| 111.055 | 004 | delta-BHC | EPA 608.3 |
| 111.055 | 005 | gamma-BHC (Lindane) | EPA 608.3 |
| 111.055 | 006 | Chlordane | EPA 608.3 |
| 111.055 | 007 | 4,4'-DDD | EPA 608.3 |
| 111.055 | 008 | 4,4'-DDE | EPA 608.3 |
| 111.055 | 009 | 4,4'-DDT | EPA 608.3 |
| 111.055 | 010 | Dieldrin | EPA 608.3 |
| 111.055 | 011 | Endosulfan I | EPA 608.3 |
| 111.055 | 012 | Endosulfan II | EPA 608.3 |
| 111.055 | 013 | Endosulfan Sulfate | EPA 608.3 |
| 111.055 | 014 | Endrin | EPA 608.3 |
| 111.055 | 015 | Endrin Aldehyde | EPA 608.3 |
| 111.055 | 016 | Heptachlor | EPA 608.3 |
| 111.055 | 017 | Heptachlor Epoxide | EPA 608.3 |
| 111.055 | 019 | PCB-1016 | EPA 608.3 |
| 111.055 | 020 | PCB-1221 | EPA 608.3 |
| 111.055 | 021 | PCB-1232 | EPA 608.3 |
| 111.055 | 022 | PCB-1242 | EPA 608.3 |
| 111.055 | 023 | PCB-1248 | EPA 608.3 |
| 111.055 | 024 | PCB-1254 | EPA 608.3 |
| 111.055 | 025 | PCB-1260 | EPA 608.3 |
| 111.055 | 046 | Methoxychlor | EPA 608.3 |
| 111.055 | 060 | Toxaphene | EPA 608.3 |
| 111.070 | 001 | Acenaphthene | EPA 610 |
| 111.070 | 002 | Acenaphthylene | EPA 610 |
| 111.070 | 003 | Anthracene | EPA 610 |
| 111.070 | 004 | Benzo(a)anthracene | EPA 610 |
| 111.070 | 005 | Benzo(a)pyrene | EPA 610 |

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|---|---|---|---|
| 111.070 | 006 | Benzo(b)fluoranthene | EPA 610 |
| 111.070 | 007 | Benzo(g,h,i)perylene | EPA 610 |
| 111.070 | 008 | Benzo(k)fluoranthene | EPA 610 |
| 111.070 | 009 | Chrysene | EPA 610 |
| 111.070 | 010 | Dibenzo(a,h)anthracene | EPA 610 |
| 111.070 | 011 | Fluoranthene | EPA 610 |
| 111.070 | 012 | Fluorene | EPA 610 |
| 111.070 | 013 | Indeno(1,2,3-c,d)pyrene | EPA 610 |
| 111.070 | 014 | Naphthalene | EPA 610 |
| 111.070 | 015 | Phenanthrene | EPA 610 |
| 111.070 | 016 | Pyrene | EPA 610 |
| 111.160 | 001 | Acenaphthene | EPA 625.1 |
| 111.160 | 002 | Acenaphthylene | EPA 625.1 |
| 111.160 | 003 | Anthracene | EPA 625.1 |
| 111.160 | 004 | Benzidine | EPA 625.1 |
| 111.160 | 005 | Benzo(a)anthracene | EPA 625.1 |
| 111.160 | 006 | Benzo(a)pyrene | EPA 625.1 |
| 111.160 | 007 | Benzo(b)fluoranthene | EPA 625.1 |
| 111.160 | 008 | Benzo(g,h,i)perylene | EPA 625.1 |
| 111.160 | 009 | Benzo(k)fluoranthene | EPA 625.1 |
| 111.160 | 010 | Bis(2-chloroethoxy) Methane | EPA 625.1 |
| 111.160 | 011 | Bis(2-chloroethyl) Ether | EPA 625.1 |
| 111.160 | 012 | Bis(2-chloroisopropyl) Ether | EPA 625.1 |
| 111.160 | 013 | Bis(2-ethylhexyl)phthalate | EPA 625.1 |
| 111.160 | 014 | 4-Bromophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 015 | Butyl Benzyl Phthalate | EPA 625.1 |
| 111.160 | 016 | 2-Chloronaphthalene | EPA 625.1 |
| 111.160 | 017 | 4-Chlorophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 018 | Chrysene | EPA 625.1 |
| 111.160 | 019 | Dibenzo(a,h)anthracene | EPA 625.1 |
| 111.160 | 020 | 3,3'-Dichlorobenzidine | EPA 625.1 |
| 111.160 | 021 | Diethyl Phthalate | EPA 625.1 |
| 111.160 | 022 | Dimethyl Phthalate | EPA 625.1 |
| 111.160 | 023 | Di-n-butyl Phthalate | EPA 625.1 |
| 111.160 | 024 | 2,4-Dinitrotoluene | EPA 625.1 |
| 111.160 | 025 | 2,6-Dinitrotoluene | EPA 625.1 |
| 111.160 | 026 | Di-n-octyl Phthalate | EPA 625.1 |
| 111.160 | 027 | Fluoranthene | EPA 625.1 |
| 111.160 | 028 | Fluorene | EPA 625.1 |
| 111.160 | 029 | Hexachlorobenzene | EPA 625.1 |
| 111.160 | 030 | Hexachlorobutadiene | EPA 625.1 |
| 111.160 | 031 | Hexachloroethane | EPA 625.1 |

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|---|---|---|---|
| 111.160 | 032 | Indeno(1,2,3-c,d)pyrene | EPA 625.1 |
| 111.160 | 033 | Isophorone | EPA 625.1 |
| 111.160 | 034 | Naphthalene | EPA 625.1 |
| 111.160 | 035 | Nitrobenzene | EPA 625.1 |
| 111.160 | 036 | N-nitrosodi-n-propylamine | EPA 625.1 |
| 111.160 | 037 | Phenanthrene | EPA 625.1 |
| 111.160 | 038 | Pyrene | EPA 625.1 |
| 111.160 | 039 | 1,2,4-Trichlorobenzene | EPA 625.1 |
| 111.160 | 040 | 4-Chloro-3-methylphenol | EPA 625.1 |
| 111.160 | 041 | 2-Chlorophenol | EPA 625.1 |
| 111.160 | 042 | 2,4-Dichlorophenol | EPA 625.1 |
| 111.160 | 043 | 2,4-Dimethylphenol | EPA 625.1 |
| 111.160 | 044 | 2,4-Dinitrophenol | EPA 625.1 |
| 111.160 | 045 | 2-Methyl-4,6-dinitrophenol | EPA 625.1 |
| 111.160 | 046 | 2-Nitrophenol | EPA 625.1 |
| 111.160 | 047 | 4-Nitrophenol | EPA 625.1 |
| 111.160 | 048 | Pentachlorophenol | EPA 625.1 |
| 111.160 | 049 | Phenol | EPA 625.1 |
| 111.160 | 050 | 2,4,6-Trichlorophenol | EPA 625.1 |
| 111.160 | 098 | Hexachlorocyclopentadiene | EPA 625.1 |
| 111.160 | 108 | N-nitrosodimethylamine | EPA 625.1 |
| 111.160 | 110 | N-nitrosodiphenylamine | EPA 625.1 |
| 111.160 | 140 | Carbazole | EPA 625.1 |
| 111.160 | 141 | o-Cresol | EPA 625.1 |
| 111.160 | 143 | 1,2-Diphenylhydrazine | EPA 625.1 |
| 111.160 | 145 | Pyridine | EPA 625.1 |
| 111.260 | 041 | N-nitrosodimethylamine | EPA 1625 B |

**Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |

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|---|---|---|---|---|
| 114.010 | 015 | Vanadium | EPA 6010 B | |
| 114.010 | 016 | Zinc | EPA 6010 B | |
| 114.020 | 001 | Antimony | EPA 6020 | |
| 114.020 | 002 | Arsenic | EPA 6020 | |
| 114.020 | 003 | Barium | EPA 6020 | |
| 114.020 | 004 | Beryllium | EPA 6020 | |
| 114.020 | 005 | Cadmium | EPA 6020 | |
| 114.020 | 006 | Chromium | EPA 6020 | |
| 114.020 | 007 | Cobalt | EPA 6020 | |
| 114.020 | 008 | Copper | EPA 6020 | |
| 114.020 | 009 | Lead | EPA 6020 | |
| 114.020 | 010 | Molybdenum | EPA 6020 | |
| 114.020 | 011 | Nickel | EPA 6020 | |
| 114.020 | 012 | Selenium | EPA 6020 | |
| 114.020 | 013 | Silver | EPA 6020 | |
| 114.020 | 014 | Thallium | EPA 6020 | |
| 114.020 | 015 | Vanadium | EPA 6020 | |
| 114.020 | 016 | Zinc | EPA 6020 | |
| 114.103 | 001 | Chromium VI (Hexavalent Chromium) | EPA 7196 A | |
| 114.106 | 001 | Chromium VI (Hexavalent Chromium) | EPA 7199 | |
| 114.140 | 001 | Mercury | EPA 7470 A | Aqueous Only |
| 114.141 | 001 | Mercury | EPA 7471 A | |
| 114.222 | 001 | Cyanide, Total | EPA 9014 | |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C | |
| 114.250 | 001 | Fluoride | EPA 9056 | |
| 114.280 | 001 | Organic Lead | HML 939-M | |

**Field of Testing:** 115 - Extraction Test of Hazardous Waste

| | | | | |
|---|---|---|---|---|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 | |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 | |
| 115.022 | 001 | TCLP Extractables | EPA 1311 | |
| 115.023 | 001 | TCLP Volatiles | EPA 1311 | |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II | |
| 115.040 | 001 | Synthetic Precipitation Leaching Procedure (SPLP) | EPA 1312 | |

**Field of Testing:** 116 - Volatile Organic Chemistry of Hazardous Waste

| | | | | |
|---|---|---|---|---|
| 116.020 | 030 | Nonhalogenated Volatiles | EPA 8015 B | |
| 116.030 | 001 | Gasoline Range Organics (GRO) | EPA 8015 B | |
| 116.040 | 041 | Methyl tert-butyl Ether (MTBE) | EPA 8021 B | |
| 116.040 | 061 | Aromatic Volatiles | EPA 8021 B | |
| 116.040 | 062 | BTEX | EPA 8021 B | |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B | |
| 116.080 | 120 | Oxygenates | EPA 8260 B | |
| 116.100 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT GC/MS | |

| | | | |
|---|---|---|---|
| 116.100 | 010 | BTEX and MTBE | LUFT GC/MS |
| 116.110 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT |

**Field of Testing:** 117 - Semi-volatile Organic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 117.010 | 001 | Diesel Range Organics (DRO) | EPA 8015 B |
| 117.016 | 001 | Diesel Range Organics (DRO) | LUFT |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.140 | 000 | Polynuclear Aromatic Hydrocarbons | EPA 8310 |
| 117.170 | 000 | Nitroaromatics and Nitramines | EPA 8330 |
| 117.171 | 000 | Nitroaromatics and Nitramines | EPA 8330 A |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.220 | 000 | PCBs | EPA 8082 |
| 117.240 | 000 | Organophosphorus Pesticides | EPA 8141 A |
| 117.250 | 000 | Chlorinated Herbicides | EPA 8151 A |

**Field of Testing:** 120 - Physical Properties of Hazardous Waste

| | | | |
|---|---|---|---|
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.040 | 001 | Reactive Cyanide | Section 7.3 SW-846 |
| 120.050 | 001 | Reactive Sulfide | Section 7.3 SW-846 |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**Fruit Growers Laboratory, Inc.**

Santa Paula

853 Corporation Street

Santa Paula, CA 93060

Phone: (805) 392-2000

**Certificate No.** **1573**

**Expiration Date** **7/31/2021**

***As of 8/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 101 – Microbiology of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.020 | 001 | Total Coliform P/A | SM 9221 B |
| 101.020 | 002 | Fecal Coliform P/A | SM 9221 B, E |
| 101.020 | 004 | Total Coliform (Enumeration) | SM 9221 B, C |
| 101.020 | 005 | Fecal Coliform (Enumeration) | SM 9221 B, E |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert |
| 101.050 | 005 | Total Coliform P/A | SM 9223 B Colilert 18 |
| 101.050 | 006 | E. coli P/A | SM 9223 B Colilert 18 |
| 101.050 | 007 | Total Coliform (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 008 | E. coli (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 009 | Total Coliform P/A | SM 9223 B Colisure |
| 101.050 | 010 | E. coli P/A | SM 9223 B Colisure |
| 101.050 | 011 | Total Coliform (Enumeration) | SM 9223 B Colisure |
| 101.050 | 012 | E. coli (Enumeration) | SM 9223 B Colisure |
| 101.170 | 001 | Enterococci | Enterolert |

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 004 | Silica | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.026 | 006 | Hardness (Calculation) | EPA 200.7 |
| 102.030 | 001 | Bromide | EPA 300.0 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 008 | Phosphate, Ortho (as P) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.045 | 001 | Perchlorate | EPA 314.0 |
| 102.095 | 001 | Turbidity | SM 2130 B-2001 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.190 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 102.220 | 001 | Nitrite (as N) | SM 4500-NO2 B-2000 |
| 102.234 | 001 | Nitrite (as N) | SM 4500-NO3 F-2000 |
| 102.234 | 002 | Nitrate (as N) | SM 4500-NO3 F-2000 |
| 102.240 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-1999 |
| 102.262 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |
| 102.263 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 C-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 103 – Toxic Chemical Elements of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 017 | Boron | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |
| 103.310 | 001 | Chromium (VI) | EPA 218.6 |

**Field of Testing:** 104 – Volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.030 | 001 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 504.1 |
| 104.030 | 002 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 504.1 |
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 000 | Volatile Organic Compounds | EPA 524.2 |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.040 | 026 | cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethylene (trans-1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethylene (Trichloroethene) | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 057 | Xylenes, Total | EPA 524.2 |
| 104.045 | 000 | Trihalomethanes, Total | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.2 |
| 104.050 | 000 | Gasoline Additives | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 105 – Semi-volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.010 | 000 | Organochlorine Pesticides and PCBs | EPA 505 |
| 105.010 | 002 | Alachlor | EPA 505 |
| 105.010 | 004 | Chlordane | EPA 505 |
| 105.010 | 006 | Endrin | EPA 505 |
| 105.010 | 007 | Heptachlor | EPA 505 |
| 105.010 | 008 | Heptachlor Epoxide | EPA 505 |
| 105.010 | 009 | Hexachlorobenzene | EPA 505 |
| 105.010 | 010 | Hexachlorocyclopentadiene | EPA 505 |
| 105.010 | 011 | Lindane (HCH-gamma) | EPA 505 |
| 105.010 | 012 | Methoxychlor | EPA 505 |
| 105.010 | 014 | Toxaphene | EPA 505 |
| 105.010 | 015 | PCBs as Aroclors (screen) | EPA 505 |
| 105.030 | 000 | N-, P- Pesticides | EPA 507 |
| 105.030 | 001 | Alachlor | EPA 507 |
| 105.030 | 002 | Atrazine | EPA 507 |
| 105.030 | 003 | Butachlor | EPA 507 |
| 105.030 | 005 | Metolachlor | EPA 507 |
| 105.030 | 006 | Metribuzin | EPA 507 |
| 105.030 | 007 | Molinate | EPA 507 |
| 105.030 | 008 | Prometryn | EPA 507 |
| 105.030 | 009 | Simazine | EPA 507 |
| 105.082 | 000 | Chlorinated Acids | EPA 515.3 |
| 105.082 | 001 | 2,4-D | EPA 515.3 |
| 105.082 | 002 | Dinoseb | EPA 515.3 |
| 105.082 | 003 | Pentachlorophenol | EPA 515.3 |
| 105.082 | 004 | Picloram | EPA 515.3 |
| 105.082 | 005 | 2,4,5-TP (Silvex) | EPA 515.3 |
| 105.082 | 006 | Bentazon | EPA 515.3 |
| 105.082 | 007 | Dalapon | EPA 515.3 |
| 105.082 | 008 | Dicamba | EPA 515.3 |
| 105.100 | 000 | Carbamates | EPA 531.1 |
| 105.100 | 001 | Aldicarb | EPA 531.1 |
| 105.100 | 002 | Aldicarb Sulfone | EPA 531.1 |
| 105.100 | 003 | Aldicarb Sulfoxide | EPA 531.1 |
| 105.100 | 004 | Carbaryl | EPA 531.1 |
| 105.100 | 005 | Carbofuran | EPA 531.1 |
| 105.100 | 006 | 3-Hydroxycarbofuran | EPA 531.1 |
| 105.100 | 007 | Methomyl | EPA 531.1 |
| 105.100 | 008 | Oxamyl | EPA 531.1 |
| 105.120 | 001 | Glyphosate | EPA 547 |
| 105.140 | 001 | Endothall | EPA 548.1 |
| 105.150 | 001 | Diquat | EPA 549.2 |
| 105.175 | 001 | Bromodichloromethane | EPA 551.1 |
| 105.175 | 002 | Bromoform | EPA 551.1 |
| 105.175 | 003 | Chloroform | EPA 551.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.175 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 551.1 |
| 105.175 | 005 | Trihalomethanes | EPA 551.1 |
| 105.200 | 001 | Bromoacetic Acid | EPA 552.2 |
| 105.200 | 003 | Chloroacetic Acid | EPA 552.2 |
| 105.200 | 005 | Dibromoacetic Acid | EPA 552.2 |
| 105.200 | 006 | Dichloroacetic Acid | EPA 552.2 |
| 105.200 | 007 | Trichloroacetic Acid | EPA 552.2 |
| 105.200 | 008 | Haloacetic Acids (HAA5) | EPA 552.2 |

**Field of Testing:** 106 – Radionuclides in Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 106.010 | 001 | Gross Alpha | EPA 900.0 |
| 106.010 | 002 | Gross Beta | EPA 900.0 |
| 106.050 | 001 | Total Alpha Radium | EPA 903.0 |
| 106.050 | 002 | Radium-226 | EPA 903.0 |
| 106.080 | 001 | Tritium | EPA 906.0 |
| 106.092 | 001 | Uranium | EPA 200.8 |
| 106.170 | 001 | Radium-228 | EPA Ra-05 |
| 106.270 | 001 | Gross Alpha | SM 7110 C |
| 106.610 | 001 | Radon-222 | SM 7500-Rn |

**Field of Testing:** 107 – Microbiological Methods for Non-Potable Water and Sewage Sludge

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 107.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 107.020 | 002 | Total Coliform | SM 9221 B-2006 |
| 107.030 | 002 | Total Coliform with Chlorine Present | SM 9221 B-2006 |
| 107.040 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 107.050 | 002 | Fecal Coliform with Chlorine Present | SM 9221 C, E-2006 |
| 107.242 | 001 | Enterococci | Enterolert |
| 107.245 | 001 | E. coli (Enumeration) | SM 9223 B Colilert 18 |
| 107.245 | 002 | E. coli (Enumeration) | SM 9223 B Colilert |

**Field of Testing:** 108 – Inorganic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.090 | 001 | Residue, Volatile | EPA 160.4 |
| 108.112 | 001 | Boron | EPA 200.7 |
| 108.112 | 002 | Calcium | EPA 200.7 |
| 108.112 | 003 | Hardness (Calculation) | EPA 200.7 |
| 108.112 | 004 | Magnesium | EPA 200.7 |
| 108.112 | 005 | Potassium | EPA 200.7 |
| 108.112 | 006 | Silica, Dissolved | EPA 200.7 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.112 | 007 | Sodium | EPA 200.7 |
| 108.112 | 008 | Phosphorus, Total | EPA 200.7 |
| 108.113 | 001 | Boron | EPA 200.8 |
| 108.120 | 001 | Bromide | EPA 300.0 |
| 108.120 | 002 | Chloride | EPA 300.0 |
| 108.120 | 003 | Fluoride | EPA 300.0 |
| 108.120 | 008 | Sulfate (as SO4) | EPA 300.0 |
| 108.120 | 012 | Nitrate (as N) | EPA 300.0 |
| 108.120 | 013 | Nitrate-Nitrite (as N) | EPA 300.0 |
| 108.120 | 014 | Nitrite (as N) | EPA 300.0 |
| 108.120 | 015 | Phosphate, Ortho (as P) | EPA 300.0 |
| 108.211 | 002 | Kjeldahl Nitrogen, Total (as N) | EPA 351.2 |
| 108.267 | 001 | Phosphorus, Total | EPA 200.7 |
| 108.360 | 001 | Phenols, Total | EPA 420.1 |
| 108.381 | 001 | Oil & Grease Total | EPA 1664 A |
| 108.390 | 001 | Turbidity | SM 2130 B-2001 |
| 108.410 | 001 | Alkalinity | SM 2320 B-1997 |
| 108.430 | 001 | Specific Conductance | SM 2510 B-1997 |
| 108.440 | 001 | Residue, Total | SM 2540 B-1997 |
| 108.441 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 108.442 | 001 | Residue, Non-filterable TSS | SM 2540 D-1997 |
| 108.443 | 001 | Residue, Settleable | SM 2540 F-1997 |
| 108.465 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 108.470 | 001 | Cyanide, Total | SM 4500-CN B or C-1999 |
| 108.472 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 108.490 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 108.506 | 002 | Ammonia (as N) | SM 4500-NH3 G-1997 |
| 108.514 | 001 | Nitrite (as N) | SM 4500-NO2 B-2000 |
| 108.529 | 001 | Nitrate-Nitrite (as N) | SM 4500-NO3 F-2000 |
| 108.529 | 002 | Nitrite (as N) | SM 4500-NO3 F-2000 |
| 108.529 | 003 | Nitrate (as N) | SM 4500-NO3 F-2000 |
| 108.540 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-1999 |
| 108.541 | 001 | Phosphorus, Total | SM 4500-P E-1999 |
| 108.584 | 001 | Sulfide (as S) | SM 4500-S D-2000 |
| 108.592 | 001 | Biochemical Oxygen Demand | SM 5210 B -2001 |
| 108.592 | 002 | Carbonaceous BOD | SM 5210 B -2001 |
| 108.595 | 001 | Chemical Oxygen Demand | SM 5220 D-1997 |
| 108.597 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |
| 108.605 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.010 | 001 | Aluminum | EPA 200.7 |
| 109.010 | 002 | Antimony | EPA 200.7 |
| 109.010 | 003 | Arsenic | EPA 200.7 |
| 109.010 | 004 | Barium | EPA 200.7 |
| 109.010 | 005 | Beryllium | EPA 200.7 |
| 109.010 | 006 | Boron | EPA 200.7 |
| 109.010 | 007 | Cadmium | EPA 200.7 |
| 109.010 | 009 | Chromium | EPA 200.7 |
| 109.010 | 010 | Cobalt | EPA 200.7 |
| 109.010 | 011 | Copper | EPA 200.7 |
| 109.010 | 012 | Iron | EPA 200.7 |
| 109.010 | 013 | Lead | EPA 200.7 |
| 109.010 | 015 | Manganese | EPA 200.7 |
| 109.010 | 016 | Molybdenum | EPA 200.7 |
| 109.010 | 017 | Nickel | EPA 200.7 |
| 109.010 | 019 | Selenium | EPA 200.7 |
| 109.010 | 021 | Silver | EPA 200.7 |
| 109.010 | 023 | Thallium | EPA 200.7 |
| 109.010 | 024 | Tin | EPA 200.7 |
| 109.010 | 025 | Titanium | EPA 200.7 |
| 109.010 | 026 | Vanadium | EPA 200.7 |
| 109.010 | 027 | Zinc | EPA 200.7 |
| 109.020 | 001 | Aluminum | EPA 200.8 |
| 109.020 | 002 | Antimony | EPA 200.8 |
| 109.020 | 003 | Arsenic | EPA 200.8 |
| 109.020 | 004 | Barium | EPA 200.8 |
| 109.020 | 005 | Beryllium | EPA 200.8 |
| 109.020 | 006 | Cadmium | EPA 200.8 |
| 109.020 | 007 | Chromium | EPA 200.8 |
| 109.020 | 008 | Cobalt | EPA 200.8 |
| 109.020 | 009 | Copper | EPA 200.8 |
| 109.020 | 010 | Lead | EPA 200.8 |
| 109.020 | 011 | Manganese | EPA 200.8 |
| 109.020 | 012 | Molybdenum | EPA 200.8 |
| 109.020 | 013 | Nickel | EPA 200.8 |
| 109.020 | 014 | Selenium | EPA 200.8 |
| 109.020 | 015 | Silver | EPA 200.8 |
| 109.020 | 016 | Thallium | EPA 200.8 |
| 109.020 | 017 | Vanadium | EPA 200.8 |
| 109.020 | 018 | Zinc | EPA 200.8 |
| 109.020 | 021 | Iron | EPA 200.8 |
| 109.104 | 001 | Chromium (VI) | EPA 218.6 |
| 109.190 | 001 | Mercury | EPA 245.1 |

**Field of Testing:** 110 – Volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 000 | Purgeable Organic Compounds | EPA 624 |

**Field of Testing:** 111 – Semi-volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.100 | 000 | Base/Neutral & Acid Organics | EPA 625 |
| 111.101 | 000 | Organochlorine Pesticides and PCBs | EPA 625 |
| 111.170 | 000 | Organochlorine Pesticides and PCBs | EPA 608 |
| 111.210 | 000 | Carbamates | EPA 632 |

**Field of Testing:** 112 – Radionuclides in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 112.020 | 001 | Total Alpha Radium | EPA 903.0 |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter 11, Article 5, Appendix II |

**Field of Testing:** 116 – Volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.080 | 120 | Oxygenates | EPA 8260 B |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A Aqueous Only |
| 117.220 | 000 | PCBs | EPA 8082 Aqueous Only |
| 117.240 | 000 | Organophosphorus Pesticides | EPA 8141 A Aqueous Only |

**Field of Testing:** 126 – Microbiological Methods for Ambient Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 126.010 | 001 | Total Coliform (Enumeration) | SM 9221 B-2006 |
| 126.030 | 001 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 126.050 | 001 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 126.050 | 002 | E. coli (Enumeration) | SM 9223 B Colilert |
| 126.080 | 001 | Enterococci | Enterolert |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**LA Testing**

Huntington Beach, CA

5431 Industrial Drive

Huntington Beach, CA 92649

Phone: (714) 828-4999

**Certificate No.** **1406**

**Expiration Date** **1/31/2022**

***As of 2/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.020 | 001 | Turbidity | EPA 180.1 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.130 | 001 | Lead | EPA 7420 |
| 114.140 | 001 | Mercury | EPA 7470 A |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.240 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.021 | 001 | TCLP Inorganics | EPA 1311 (TCLP) |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.220 | 000 | PCBs | EPA 8082 |

**Field of Testing:** 120 – Physical Properties of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 120.070 | 001 | Corrosivity – pH Determination | EPA 9040 B |
| 120.080 | 001 | Corrosivity – pH Determination | EPA 9045 C |

**Field of Testing:** 121 – Bulk Asbestos Analysis of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 121.010 | 001 | Bulk Asbestos | EPA 600/M4-82-020 |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**North Coast Laboratories, Ltd.**

5680 West End Road

Arcata, CA 95521

Phone: (707) 822-4649

**Certificate No.** **1247**

**Expiration Date** **7/31/2021** **INTERIM**

***As of 8/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 101 – Microbiology of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert |

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.030 | 001 | Bromide | EPA 300.0 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.120 | 001 | Hardness (Calculation) | SM 2340 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.240 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-1999 |
| 102.262 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |
| 102.263 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 C-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 103 – Toxic Chemical Elements of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |

**Field of Testing:** 104 – Volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.030 | 001 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 504.1 |
| 104.030 | 002 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 504.1 |
| 104.040 | 001 | Benzene | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethylene (trans-1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethylene (Trichloroethene) | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 059 | o-Xylene | EPA 524.2 |
| 104.040 | 063 | m+p-Xylene | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane (Freon 113) | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 105 – Semi-volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.010 | 002 | Alachlor | EPA 505 |
| 105.010 | 004 | Chlordane | EPA 505 |
| 105.010 | 006 | Endrin | EPA 505 |
| 105.010 | 007 | Heptachlor | EPA 505 |
| 105.010 | 008 | Heptachlor Epoxide | EPA 505 |
| 105.010 | 009 | Hexachlorobenzene | EPA 505 |
| 105.010 | 010 | Hexachlorocyclopentadiene | EPA 505 |
| 105.010 | 011 | Lindane (HCH-gamma) | EPA 505 |
| 105.010 | 012 | Methoxychlor | EPA 505 |
| 105.010 | 014 | Toxaphene | EPA 505 |
| 105.010 | 015 | PCBs as Aroclors (screen) | EPA 505 |
| 105.020 | 001 | Di(2-ethylhexyl) Adipate | EPA 506 |
| 105.020 | 002 | Di(2-ethylhexyl) Phthalate | EPA 506 |
| 105.030 | 001 | Alachlor | EPA 507 |
| 105.030 | 002 | Atrazine | EPA 507 |
| 105.030 | 003 | Butachlor | EPA 507 |
| 105.030 | 005 | Metolachlor | EPA 507 |
| 105.030 | 006 | Metribuzin | EPA 507 |
| 105.030 | 007 | Molinate | EPA 507 |
| 105.030 | 008 | Prometryn | EPA 507 |
| 105.030 | 009 | Simazine | EPA 507 |
| 105.082 | 001 | 2,4-D | EPA 515.3 |
| 105.082 | 002 | Dinoseb | EPA 515.3 |
| 105.082 | 003 | Pentachlorophenol | EPA 515.3 |
| 105.082 | 004 | Picloram | EPA 515.3 |
| 105.082 | 005 | 2,4,5-TP (Silvex) | EPA 515.3 |
| 105.082 | 006 | Bentazon | EPA 515.3 |
| 105.082 | 007 | Dalapon | EPA 515.3 |
| 105.082 | 008 | Dicamba | EPA 515.3 |
| 105.100 | 001 | Aldicarb | EPA 531.1 |
| 105.100 | 002 | Aldicarb Sulfone | EPA 531.1 |
| 105.100 | 003 | Aldicarb Sulfoxide | EPA 531.1 |
| 105.100 | 004 | Carbaryl | EPA 531.1 |
| 105.100 | 005 | Carbofuran | EPA 531.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.100 | 006 | 3-Hydroxycarbofuran | EPA 531.1 |
| 105.100 | 007 | Methomyl | EPA 531.1 |
| 105.100 | 008 | Oxamyl | EPA 531.1 |
| 105.120 | 001 | Glyphosate | EPA 547 |
| 105.140 | 001 | Endothall | EPA 548.1 |
| 105.150 | 001 | Diquat | EPA 549.2 |
| 105.161 | 001 | Benzo(a)pyrene | EPA 550.1 |
| 105.200 | 001 | Bromoacetic Acid | EPA 552.2 |
| 105.200 | 003 | Chloroacetic Acid | EPA 552.2 |
| 105.200 | 005 | Dibromoacetic Acid | EPA 552.2 |
| 105.200 | 006 | Dichloroacetic Acid | EPA 552.2 |
| 105.200 | 007 | Trichloroacetic Acid | EPA 552.2 |

**Field of Testing:** 107 – Microbiological Methods for Non-Potable Water and Sewage Sludge

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 107.001 | 001 | Total Coliform (Enumeration) | SM 9221 B, C-2006 |
| 107.001 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 107.005 | 001 | E. coli (Enumeration) | SM 9223 B-2004 |

**Field of Testing:** 108 – Inorganic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.007 | 001 | Residue, Volatile | EPA 160.4 (1971) |
| 108.009 | 001 | Turbidity | EPA 180.1 (1993 Rev. 2.0) |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) |
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.053 | 002 | Oil & Grease Total | EPA 1664 B |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 |
| 108.065 | 001 | Hardness (Calculation) | SM 2340 B-2011 |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 |
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 |
| 108.075 | 001 | Residue, Non-filterable TSS | SM 2540 D-2011 |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 |
| 108.114 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2011 |
| 108.114 | 002 | Chlorine, Free | SM 4500-Cl G-2011 |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 |
| 108.140 | 001 | Ammonia (as N) | SM 4500-NH3 D-2011 |
| 108.140 | 002 | Kjeldahl Nitrogen, Total (as N) | SM 4500-NH3 D-2011 |
| 108.175 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-2011 |
| 108.175 | 002 | Phosphorus, Total | SM 4500-P E-2011 |
| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 |
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 |
| 108.217 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2011 |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 |
| 108.325 | 001 | Chemical Oxygen Demand | Hach 8000 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 002 | Antimony | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 003 | Arsenic | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 004 | Barium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 005 | Beryllium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 007 | Cadmium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 008 | Chromium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 009 | Cobalt | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 010 | Copper | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 012 | Lead | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 013 | Manganese | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 014 | Molybdenum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 015 | Nickel | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 016 | Selenium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 017 | Silver | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 018 | Thallium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 021 | Vanadium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 022 | Zinc | EPA 200.7 (1994 Rev. 4.4) |
| 109.625 | 001 | Aluminum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) |
| 109.687 | 001 | Chromium (VI) | SM 3500-Cr C-2011 |

**Field of Testing:** 110 – Volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 005 | Benzene | EPA 624.1 |
| 110.040 | 006 | Bromodichloromethane | EPA 624.1 |
| 110.040 | 007 | Bromoform | EPA 624.1 |
| 110.040 | 008 | Bromomethane (Methyl Bromide) | EPA 624.1 |
| 110.040 | 010 | Carbon Tetrachloride | EPA 624.1 |
| 110.040 | 011 | Chlorobenzene | EPA 624.1 |
| 110.040 | 012 | Chloroethane | EPA 624.1 |
| 110.040 | 013 | 2-Chloroethylvinyl Ether | EPA 624.1 |
| 110.040 | 014 | Chloroform | EPA 624.1 |
| 110.040 | 015 | Chloromethane (Methyl Chloride) | EPA 624.1 |
| 110.040 | 016 | Dibromochloromethane (Chlorodibromomethane) | EPA 624.1 |
| 110.040 | 017 | 1,2-Dichlorobenzene | EPA 624.1 |
| 110.040 | 018 | 1,3-Dichlorobenzene | EPA 624.1 |
| 110.040 | 019 | 1,4-Dichlorobenzene | EPA 624.1 |
| 110.040 | 020 | 1,1-Dichloroethane | EPA 624.1 |
| 110.040 | 021 | 1,2-Dichloroethane | EPA 624.1 |
| 110.040 | 022 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 624.1 |
| 110.040 | 023 | trans-1,2-Dichloroethylene (trans-1,2 Dichloroethene) | EPA 624.1 |
| 110.040 | 024 | 1,2-Dichloropropane | EPA 624.1 |
| 110.040 | 025 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 624.1 |
| 110.040 | 026 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 624.1 |
| 110.040 | 029 | Ethylbenzene | EPA 624.1 |
| 110.040 | 031 | Methylene Chloride (Dichloromethane) | EPA 624.1 |
| 110.040 | 034 | 1,1,2,2-Tetrachloroethane | EPA 624.1 |
| 110.040 | 035 | Tetrachloroethylene (Tetrachloroethene) | EPA 624.1 |
| 110.040 | 037 | Toluene | EPA 624.1 |
| 110.040 | 038 | 1,1,1-Trichloroethane | EPA 624.1 |
| 110.040 | 039 | 1,1,2-Trichloroethane | EPA 624.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 040 | Trichloroethylene (Trichloroethene) | EPA 624.1 |
| 110.040 | 041 | Vinyl Chloride | EPA 624.1 |
| 110.040 | 043 | o-Xylene | EPA 624.1 |
| 110.040 | 045 | Trichlorofluoromethane | EPA 624.1 |
| 110.040 | 046 | m+p-Xylene | EPA 624.1 |

**Field of Testing:** 111 – Semi-volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.030 | 002 | Bis(2-ethylhexyl)phthalate | EPA 606 |
| 111.055 | 001 | Aldrin | EPA 608.3 |
| 111.055 | 002 | alpha-BHC | EPA 608.3 |
| 111.055 | 003 | beta-BHC | EPA 608.3 |
| 111.055 | 004 | delta-BHC | EPA 608.3 |
| 111.055 | 005 | gamma-BHC (Lindane) | EPA 608.3 |
| 111.055 | 006 | Chlordane | EPA 608.3 |
| 111.055 | 007 | 4,4'-DDD | EPA 608.3 |
| 111.055 | 008 | 4,4'-DDE | EPA 608.3 |
| 111.055 | 009 | 4,4'-DDT | EPA 608.3 |
| 111.055 | 010 | Dieldrin | EPA 608.3 |
| 111.055 | 011 | Endosulfan I | EPA 608.3 |
| 111.055 | 012 | Endosulfan II | EPA 608.3 |
| 111.055 | 013 | Endosulfan Sulfate | EPA 608.3 |
| 111.055 | 014 | Endrin | EPA 608.3 |
| 111.055 | 015 | Endrin Aldehyde | EPA 608.3 |
| 111.055 | 016 | Heptachlor | EPA 608.3 |
| 111.055 | 017 | Heptachlor Epoxide | EPA 608.3 |
| 111.055 | 019 | PCB-1016 | EPA 608.3 |
| 111.055 | 020 | PCB-1221 | EPA 608.3 |
| 111.055 | 021 | PCB-1232 | EPA 608.3 |
| 111.055 | 022 | PCB-1242 | EPA 608.3 |
| 111.055 | 023 | PCB-1248 | EPA 608.3 |
| 111.055 | 024 | PCB-1254 | EPA 608.3 |
| 111.055 | 025 | PCB-1260 | EPA 608.3 |
| 111.055 | 038 | Chlorothalonil | EPA 608.3 |
| 111.055 | 046 | Methoxychlor | EPA 608.3 |
| 111.055 | 060 | Toxaphene | EPA 608.3 |
| 111.120 | 001 | 2,4-D | EPA 615 |
| 111.120 | 002 | 2,4-DB | EPA 615 |
| 111.120 | 003 | Dicamba | EPA 615 |
| 111.120 | 004 | Dichlorprop | EPA 615 |
| 111.120 | 005 | Dinoseb | EPA 615 |
| 111.120 | 008 | 2,4,5-T | EPA 615 |
| 111.120 | 009 | 2,4,5-TP (Silvex) | EPA 615 |
| 111.140 | 001 | Ametryn | EPA 619 |
| 111.140 | 002 | Atraton | EPA 619 |
| 111.140 | 003 | Atrazine | EPA 619 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.140 | 004 | Prometon | EPA 619 |
| 111.140 | 005 | Prometryn | EPA 619 |
| 111.140 | 006 | Propazine | EPA 619 |
| 111.140 | 008 | Simazine | EPA 619 |
| 111.140 | 010 | Terbutryn | EPA 619 |
| 111.190 | 008 | Ziram (Zinc Dimethyldithiocarbamate) | EPA 630 |
| 111.210 | 002 | Barban | EPA 632 |
| 111.210 | 003 | Carbaryl | EPA 632 |
| 111.210 | 004 | Carbofuran | EPA 632 |
| 111.210 | 005 | Chloropropham | EPA 632 |
| 111.210 | 006 | Diuron | EPA 632 |
| 111.210 | 007 | Fenuron | EPA 632 |
| 111.210 | 009 | Linuron | EPA 632 |
| 111.210 | 010 | Methiocarb | EPA 632 |
| 111.210 | 011 | Methomyl | EPA 632 |
| 111.210 | 013 | Monuron | EPA 632 |
| 111.210 | 015 | Neburon | EPA 632 |
| 111.210 | 016 | Propham | EPA 632 |
| 111.210 | 017 | Propoxur | EPA 632 |
| 111.210 | 018 | Siduron | EPA 632 |
| 111.210 | 019 | Swep | EPA 632 |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.021 | 001 | TCLP Inorganics | EPA 1311 |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter 11, Article 5, Appendix II |

**Field of Testing:** 116 – Volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.080 | 120 | Oxygenates | EPA 8260 B |
| 116.100 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT GC/MS |
| 116.100 | 010 | BTEX and MTBE | LUFT GC/MS |
| 116.110 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.016 | 001 | Diesel-range Total Petroleum Hydrocarbons | LUFT |
| 117.150 | 000 | Carbonyl Compounds | EPA 8315 A |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.250 | 000 | Chlorinated Herbicides | EPA 8151 A |
| 117.280 | 000 | Carbamates | EPA 8321 A |

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CALIFORNIA STATE

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San Fernando, CA 91340

Scope of the certificate is limited to the
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Effective Date: **6/1/2021**

Expiration Date: **5/31/2022**

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Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

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**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**
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**Field of Testing:** 101 - Microbiology of Drinking Water

| | | | |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.020 | 004 | Total Coliform (Enumeration) | SM 9221 B,C |
| 101.020 | 005 | Fecal Coliform (Enumeration) | SM 9221 B,E |
| 101.020 | 006 | E. coli (Enumeration) | SM 9221 B,F |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert |
| 101.050 | 005 | Total Coliform P/A | SM 9223 B Colilert 18 |
| 101.050 | 006 | E. coli P/A | SM 9223 B Colilert 18 |
| 101.050 | 007 | Total Coliform (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 008 | E. coli (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 009 | Total Coliform P/A | SM 9223 B Colisure |
| 101.050 | 010 | E. coli P/A | SM 9223 B Colisure |
| 101.140 | 001 | Enterococci | SM 9230 B |
| 101.170 | 001 | Enterococci | Enterolert |

**Field of Testing:** 102 - Inorganic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 102.020 | 001 | Turbidity | EPA 180.1 |
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 004 | Silica | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.026 | 006 | Hardness (Calculation) | EPA 200.7 |
| 102.030 | 001 | Bromide | EPA 300.0 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.040 | 001 | Bromide | EPA 300.1 |
| 102.040 | 002 | Chlorite | EPA 300.1 |
| 102.040 | 003 | Chlorate | EPA 300.1 |

| | | | |
|---|---|---|---|
| 102.040 | 004 | Bromate | EPA 300.1 |
| 102.045 | 001 | Perchlorate | EPA 314.0 |
| 102.047 | 001 | Perchlorate | EPA 331.0 |
| 102.048 | 001 | Perchlorate | EPA 332.0 |
| 102.050 | 001 | Cyanide, Total | EPA 335.4 |
| 102.060 | 001 | Nitrate (as N) (Calculation) | EPA 353.2 |
| 102.061 | 001 | Nitrite (as N) | EPA 353.2 |
| 102.070 | 001 | Phosphate,Ortho (as P) | EPA 365.1 |
| 102.086 | 001 | Dissolved Organic Carbon (DOC) | EPA 415.3 Revision 1.2 |
| 102.086 | 002 | Specific UV Absorbance SUVA | EPA 415.3 Revision 1.2 |
| 102.086 | 003 | Organic Carbon-Total (TOC) | EPA 415.3 Revision 1.2 |
| 102.086 | 004 | UV254 | EPA 415.3 Revision 1.2 |
| 102.090 | 001 | Bromate | EPA 557 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.180 | 001 | Chlorine Dioxide | SM 4500-ClO2 D-2000 |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 102.260 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2000 |
| 102.261 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 B-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |
| 102.280 | 001 | UV254 | SM 5910 B-2011 |
| 102.570 | 001 | Cyanide, Free | OIA-1677, DW |

**Field of Testing:** 103 - Toxic Chemical Elements of Drinking Water

| | | | |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |

| | | | |
|---|---|---|---|
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 011 | Mercury | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 017 | Boron | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.140 | 019 | Strontium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |
| 103.310 | 001 | Chromium (VI) | EPA 218.6 |
| 103.311 | 001 | Chromium (VI) | EPA 218.7 |

**Field of Testing:** 104 - Volatile Organic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 104.030 | 001 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 504.1 |
| 104.030 | 002 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 504.1 |
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 000 | Volatile Organic Compounds | EPA 524.2 |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethylene (trans- 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 524.2 |

| | | | |
|---|---|---|---|
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethylene (Trichloroethene) | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 057 | Xylenes, Total | EPA 524.2 |
| 104.040 | 061 | Carbon Disulfide | EPA 524.2 |
| 104.040 | 062 | Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | EPA 524.2 |
| 104.045 | 000 | Trihalomethanes, Total | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.2 |
| 104.050 | 000 | Gasoline Additives | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |
| 104.055 | 022 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 524.3 |
| 104.055 | 023 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 524.3 |
| 104.058 | 000 | Volatile Organic Compounds | EPA 524.4 |
| 104.058 | 001 | Benzene | EPA 524.4 |
| 104.058 | 002 | Carbon Tetrachloride | EPA 524.4 |
| 104.058 | 003 | Chlorobenzene | EPA 524.4 |
| 104.058 | 004 | 1,2-Dichlorobenzene | EPA 524.4 |
| 104.058 | 005 | 1,4-Dichlorobenzene | EPA 524.4 |
| 104.058 | 006 | 1,2-Dichloroethane | EPA 524.4 |
| 104.058 | 007 | cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene) | EPA 524.4 |

| | | | |
|---|---|---|---|
| 104.058 | 008 | trans-1,2-Dichloroethylene (trans- 1,2 Dichloroethene) | EPA 524.4 |
| 104.058 | 009 | Dichloromethane (Methylene Chloride) | EPA 524.4 |
| 104.058 | 010 | 1,2-Dichloropropane | EPA 524.4 |
| 104.058 | 011 | Ethylbenzene | EPA 524.4 |
| 104.058 | 012 | Styrene | EPA 524.4 |
| 104.058 | 013 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.4 |
| 104.058 | 014 | 1,1,1-Trichloroethane | EPA 524.4 |
| 104.058 | 015 | Trichloroethylene (Trichloroethene) | EPA 524.4 |
| 104.058 | 016 | Toluene | EPA 524.4 |
| 104.058 | 017 | 1,2,4-Trichlorobenzene | EPA 524.4 |
| 104.058 | 018 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.4 |
| 104.058 | 019 | 1,1,2-Trichloroethane | EPA 524.4 |
| 104.058 | 020 | Vinyl Chloride | EPA 524.4 |
| 104.058 | 021 | Xylenes, Total | EPA 524.4 |
| 104.059 | 000 | Trihalomethanes, Total | EPA 524.4 |
| 104.059 | 001 | Bromodichloromethane | EPA 524.4 |
| 104.059 | 002 | Bromoform | EPA 524.4 |
| 104.059 | 003 | Chloroform | EPA 524.4 |
| 104.059 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.4 |
| 104.061 | 000 | Gasoline Additives | EPA 524.4 |
| 104.061 | 001 | Di-isopropyl Ether (DIPE) | EPA 524.4 |
| 104.061 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.4 |
| 104.061 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.4 |
| 104.061 | 005 | Trichlorofluoromethane (Freon 11) | EPA 524.4 |
| 104.061 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.4 |
| 104.061 | 007 | Trichlorotrifluoroethane (Freon 113) | EPA 524.4 |

**Field of Testing:** 105 - Semi-volatile Organic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 105.035 | 000 | Organochlorine Pesticides and PCBs | EPA 508 |
| 105.035 | 001 | Aldrin | EPA 508 |
| 105.035 | 005 | Endrin | EPA 508 |
| 105.035 | 007 | Heptachlor | EPA 508 |
| 105.035 | 008 | Heptachlor Epoxide | EPA 508 |
| 105.035 | 009 | Hexachlorobenzene | EPA 508 |
| 105.035 | 010 | Lindane (HCH-gamma) | EPA 508 |
| 105.035 | 011 | Methoxychlor | EPA 508 |
| 105.035 | 012 | Propachlor | EPA 508 |
| 105.035 | 013 | Chlordane | EPA 508 |
| 105.035 | 014 | Toxaphene | EPA 508 |
| 105.035 | 015 | PCBs as Aroclors | EPA 508 |
| 105.035 | 016 | Aroclor 1016 | EPA 508 |
| 105.035 | 017 | Aroclor 1221 | EPA 508 |
| 105.035 | 018 | Aroclor 1232 | EPA 508 |

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|---|---|---|---|
| 105.035 | 019 | Aroclor 1242 | EPA 508 |
| 105.035 | 020 | Aroclor 1248 | EPA 508 |
| 105.035 | 021 | Aroclor 1254 | EPA 508 |
| 105.035 | 022 | Aroclor 1260 | EPA 508 |
| 105.050 | 000 | Organochlorine Pesticides | EPA 508.1 |
| 105.050 | 005 | Chlordane (total) | EPA 508.1 |
| 105.050 | 010 | Endrin | EPA 508.1 |
| 105.050 | 011 | Heptachlor | EPA 508.1 |
| 105.050 | 012 | Heptachlor Epoxide | EPA 508.1 |
| 105.050 | 013 | Hexachlorobenzene | EPA 508.1 |
| 105.050 | 014 | Hexachlorocyclopentadiene | EPA 508.1 |
| 105.050 | 015 | Lindane (HCH-gamma) | EPA 508.1 |
| 105.050 | 016 | Methoxychlor | EPA 508.1 |
| 105.050 | 019 | Propachlor | EPA 508.1 |
| 105.050 | 021 | PCB-1016 | EPA 508.1 |
| 105.050 | 022 | PCB-1221 | EPA 508.1 |
| 105.050 | 023 | PCB-1232 | EPA 508.1 |
| 105.050 | 024 | PCB-1242 | EPA 508.1 |
| 105.050 | 025 | PCB-1248 | EPA 508.1 |
| 105.050 | 026 | PCB-1254 | EPA 508.1 |
| 105.050 | 027 | PCB-1260 | EPA 508.1 |
| 105.050 | 028 | PCBs as Aroclors | EPA 508.1 |
| 105.050 | 029 | Toxaphene | EPA 508.1 |
| 105.083 | 000 | Chlorinated Acids | EPA 515.4 |
| 105.083 | 001 | 2,4-D | EPA 515.4 |
| 105.083 | 002 | Dinoseb | EPA 515.4 |
| 105.083 | 003 | Pentachlorophenol | EPA 515.4 |
| 105.083 | 004 | Picloram | EPA 515.4 |
| 105.083 | 005 | 2,4,5-TP (Silvex) | EPA 515.4 |
| 105.083 | 006 | Dalapon | EPA 515.4 |
| 105.083 | 007 | Bentazon | EPA 515.4 |
| 105.083 | 008 | Dicamba | EPA 515.4 |
| 105.090 | 000 | Semi-volatile Organic Compounds | EPA 525.2 |
| 105.090 | 001 | Alachlor | EPA 525.2 |
| 105.090 | 003 | Atrazine | EPA 525.2 |
| 105.090 | 004 | Benzo(a)pyrene | EPA 525.2 |
| 105.090 | 005 | Butachlor | EPA 525.2 |
| 105.090 | 007 | Dieldrin | EPA 525.2 |
| 105.090 | 008 | Di(2-ethylhexyl) Adipate | EPA 525.2 |
| 105.090 | 009 | Di(2-ethylhexyl) Phthalate | EPA 525.2 |
| 105.090 | 013 | Endrin | EPA 525.2 |
| 105.090 | 014 | Heptachlor | EPA 525.2 |

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|---|---|---|---|
| 105.090 | 015 | Heptachlor Epoxide | EPA 525.2 |
| 105.090 | 016 | Hexachlorobenzene | EPA 525.2 |
| 105.090 | 017 | Hexachlorocyclopentadiene | EPA 525.2 |
| 105.090 | 018 | Lindane (HCH-gamma) | EPA 525.2 |
| 105.090 | 019 | Methoxychlor | EPA 525.2 |
| 105.090 | 022 | Molinate | EPA 525.2 |
| 105.090 | 023 | Pentachlorophenol | EPA 525.2 |
| 105.090 | 025 | Simazine | EPA 525.2 |
| 105.090 | 028 | Thiobencarb | EPA 525.2 |
| 105.101 | 000 | Carbamates | EPA 531.2 |
| 105.101 | 001 | Carbofuran | EPA 531.2 |
| 105.101 | 002 | Oxamyl | EPA 531.2 |
| 105.101 | 003 | Aldicarb | EPA 531.2 |
| 105.101 | 004 | Aldicarb Sulfone | EPA 531.2 |
| 105.101 | 005 | Aldicarb Sulfoxide | EPA 531.2 |
| 105.101 | 006 | Carbaryl | EPA 531.2 |
| 105.101 | 007 | 3-Hydroxycarbofuran | EPA 531.2 |
| 105.101 | 008 | Methomyl | EPA 531.2 |
| 105.106 | 000 | Per- and Polyfluorinated Alkyl Substances (PFAS) | EPA 537.1 |
| 105.120 | 001 | Glyphosate | EPA 547 |
| 105.140 | 001 | Endothall | EPA 548.1 |
| 105.150 | 001 | Diquat | EPA 549.2 |
| 105.170 | 031 | Disinfection Byproducts | EPA 551.1 |
| 105.201 | 001 | Haloacetic Acids (HAA5) | EPA 552.3 |
| 105.210 | 002 | 2,4-D | EPA 555 |
| 105.210 | 004 | Dinoseb | EPA 555 |
| 105.210 | 005 | Pentachlorophenol | EPA 555 |
| 105.210 | 006 | Picloram | EPA 555 |
| 105.210 | 007 | 2,4,5-TP (Silvex) | EPA 555 |
| 105.210 | 008 | Bentazon | EPA 555 |
| 105.215 | 001 | Haloacetic Acids (HAA5) | EPA 557 |
| 105.215 | 002 | Dalapon | EPA 557 |
| 105.230 | 002 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Screenin | EPA 1613 B |

**Field of Testing:** 106 - Radionuclides in Drinking Water

| | | | |
|---|---|---|---|
| 106.010 | 001 | Gross Alpha | EPA 900.0 |
| 106.010 | 002 | Gross Beta | EPA 900.0 |
| 106.092 | 001 | Uranium | EPA 200.8 |
| 106.270 | 001 | Gross Alpha | SM 7110 C |
| 106.610 | 001 | Radon-222 | SM 7500-Rn |

**Field of Testing:** 107 - Microbiological Methods for Non-Potable Water and Sewage Sludge

| | | | |
|---|---|---|---|
| 107.001 | 001 | Total Coliform (Enumeration) | SM 9221 B,C-2006 |
| 107.001 | 002 | Fecal Coliform (Enumeration) | SM 9221 C,E-2006 |

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|---|---|---|---|
| 107.001 | 003 | E. coli (Enumeration) | SM 9221 C,F-2006 |
| 107.007 | 002 | Fecal Streptococci | SM 9230 B-2007 |
| 107.013 | 001 | E. coli (Enumeration) | Colilert |
| 107.015 | 001 | E. coli (Enumeration) | Colilert 18 |
| 107.015 | 002 | Fecal Coliform (Enumeration) | Colilert 18 |
| 107.017 | 001 | Enterococci | Enterolert |

**Field of Testing:** 108 - Inorganic Constituents in Non-Potable Water

| | | | |
|---|---|---|---|
| 108.007 | 001 | Residue, Volatile | EPA 160.4 (1971) |
| 108.009 | 001 | Turbidity | EPA 180.1 (1993 Rev. 2.0) |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 003 | Phosphorus,Total | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 005 | Silica, Dissolved | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) |
| 108.015 | 001 | Calcium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 002 | Magnesium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 003 | Potassium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 005 | Sodium | EPA 200.8 (1994 Rev. 5.4) |
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) |
| 108.019 | 001 | Bromide | EPA 300.1 (1997 Rev.1.0) |
| 108.023 | 001 | Cyanide, Total | EPA 335.4 (1993 Rev. 1.0) |
| 108.025 | 001 | Ammonia (as N) | EPA 350.1 (1993 Rev. 2.0) |
| 108.029 | 001 | Kjeldahl Nitrogen,Total (as N) | EPA 351.2 (1993 Rev. 2.0) |
| 108.033 | 001 | Nitrate-Nitrite (as N) | EPA 353.2 (1993 Rev. 2.0) |
| 108.033 | 002 | Nitrite (as N) | EPA 353.2 (1993 Rev. 2.0) |
| 108.035 | 001 | Phosphate,Ortho (as P) | EPA 365.1 (1993 Rev. 2.0) |
| 108.035 | 002 | Phosphorus,Total | EPA 365.1 (1993 Rev. 2.0) |
| 108.037 | 001 | Phosphate,Ortho (as P) | EPA 365.3 (1978) |
| 108.037 | 002 | Phosphorus,Total | EPA 365.3 (1978) |
| 108.045 | 001 | Chemical Oxygen Demand | EPA 410.4 (1993 Rev. 2.0) |
| 108.049 | 001 | Phenols, Total | EPA 420.4 (1993 Rev. 2.0) |
| 108.053 | 002 | Oil & Grease Total | EPA 1664 B |
| 108.055 | 001 | Color | SM 2120 B-2011 |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 |

| | | | |
|---|---|---|---|
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 |
| 108.075 | 001 | Residue, Non-filterable TSS | SM 2540 D-2011 |
| 108.077 | 001 | Residue, Volatile | SM 2540 E-2011 |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 |
| 108.080 | 001 | Temperature | SM 2550 B-2010 |
| 108.114 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2011 |
| 108.114 | 002 | Chlorine, Free | SM 4500-Cl G-2011 |
| 108.129 | 001 | Cyanide, Available | SM 4500-CN G-2011 |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 |
| 108.173 | 001 | Oxygen, Dissolved | SM 4500-O G-2011 |
| 108.189 | 001 | Sulfite (as SO3) | SM 4500-SO3 B-2011 |
| 108.201 | 001 | Sulfide (as S) | SM 4500-S D-2011 |
| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 |
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 |
| 108.215 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2011 |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 |
| 108.321 | 001 | Cyanide, Total | ASTM D7511-12 |
| 108.339 | 001 | Cyanide, Available | OIA-1677-09 |

**Field of Testing:** 109 - Metals and Trace Elements in Non-Potable Water

| | | | |
|---|---|---|---|
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 002 | Antimony | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 003 | Arsenic | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 004 | Barium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 005 | Beryllium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 007 | Cadmium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 008 | Chromium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 009 | Cobalt | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 010 | Copper | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 012 | Lead | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 013 | Manganese | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 014 | Molybdenum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 015 | Nickel | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 016 | Selenium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 017 | Silver | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 018 | Thallium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 019 | Tin | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 020 | Titanium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 021 | Vanadium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 022 | Zinc | EPA 200.7 (1994 Rev. 4.4) |

| | | | |
|---|---|---|---|
| 109.625 | 001 | Aluminum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 006 | Boron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 012 | Iron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 020 | Tin | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 021 | Titanium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) |
| 109.629 | 001 | Chromium (VI) | EPA 218.6 (1994 Rev. 3.3) |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) |
| 109.657 | 001 | Mercury | EPA 1631 E (2002) |

**Field of Testing:** 110 - Volatile Organic Constituents in Non-Potable Water

| | | | |
|---|---|---|---|
| 110.040 | 001 | Acetone | EPA 624.1 |
| 110.040 | 002 | Acetonitrile | EPA 624.1 |
| 110.040 | 003 | Acrolein | EPA 624.1 |
| 110.040 | 004 | Acrylonitrile | EPA 624.1 |
| 110.040 | 005 | Benzene | EPA 624.1 |
| 110.040 | 006 | Bromodichloromethane | EPA 624.1 |
| 110.040 | 007 | Bromoform | EPA 624.1 |
| 110.040 | 008 | Bromomethane (Methyl Bromide) | EPA 624.1 |
| 110.040 | 009 | tert-Butyl Alcohol (TBA) | EPA 624.1 |
| 110.040 | 010 | Carbon Tetrachloride | EPA 624.1 |
| 110.040 | 011 | Chlorobenzene | EPA 624.1 |
| 110.040 | 012 | Chloroethane | EPA 624.1 |
| 110.040 | 013 | 2-Chloroethylvinyl Ether | EPA 624.1 |
| 110.040 | 014 | Chloroform | EPA 624.1 |
| 110.040 | 015 | Chloromethane (Methyl Chloride) | EPA 624.1 |
| 110.040 | 016 | Dibromochloromethane (Chlorodibromomethane) | EPA 624.1 |

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|---|---|---|---|
| 110.040 | 017 | 1,2-Dichlorobenzene | EPA 624.1 |
| 110.040 | 018 | 1,3-Dichlorobenzene | EPA 624.1 |
| 110.040 | 019 | 1,4-Dichlorobenzene | EPA 624.1 |
| 110.040 | 020 | 1,1-Dichloroethane | EPA 624.1 |
| 110.040 | 021 | 1,2-Dichloroethane | EPA 624.1 |
| 110.040 | 022 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 624.1 |
| 110.040 | 023 | trans-1,2-Dichloroethylene (trans- 1,2 Dichloroethene) | EPA 624.1 |
| 110.040 | 024 | 1,2-Dichloropropane | EPA 624.1 |
| 110.040 | 025 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 624.1 |
| 110.040 | 026 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 624.1 |
| 110.040 | 029 | Ethylbenzene | EPA 624.1 |
| 110.040 | 031 | Methylene Chloride (Dichloromethane) | EPA 624.1 |
| 110.040 | 032 | 4-Methyl-2-pentanone (MIBK) | EPA 624.1 |
| 110.040 | 034 | 1,1,2,2-Tetrachloroethane | EPA 624.1 |
| 110.040 | 035 | Tetrachloroethylene (Tetrachloroethene) | EPA 624.1 |
| 110.040 | 037 | Toluene | EPA 624.1 |
| 110.040 | 038 | 1,1,1-Trichloroethane | EPA 624.1 |
| 110.040 | 039 | 1,1,2-Trichloroethane | EPA 624.1 |
| 110.040 | 040 | Trichloroethylene (Trichloroethene) | EPA 624.1 |
| 110.040 | 041 | Vinyl Chloride | EPA 624.1 |
| 110.040 | 042 | m-Xylene | EPA 624.1 |
| 110.040 | 043 | o-Xylene | EPA 624.1 |
| 110.040 | 044 | p-Xylene | EPA 624.1 |
| 110.040 | 045 | Trichlorofluoromethane | EPA 624.1 |
| 110.070 | 002 | n-Amyl Acetate | EPA 1666 |
| 110.070 | 004 | n-Butyl Acetate | EPA 1666 |
| 110.070 | 005 | tert-Butyl Alcohol (TBA) | EPA 1666 |
| 110.070 | 006 | Diethylamine | EPA 1666 |
| 110.070 | 007 | Dimethyl Sulfoxide | EPA 1666 |
| 110.070 | 009 | Ethyl Acetate | EPA 1666 |
| 110.070 | 010 | n-Heptane | EPA 1666 |
| 110.070 | 011 | n-Hexane | EPA 1666 |
| 110.070 | 012 | Isobutyraldehyde | EPA 1666 |
| 110.070 | 013 | Isopropyl Acetate | EPA 1666 |
| 110.070 | 014 | Isopropyl Alcohol (Isopropanol) | EPA 1666 |
| 110.070 | 015 | Isopropyl Ether (DIPE) | EPA 1666 |
| 110.070 | 017 | 2-Methoxyethanol | EPA 1666 |
| 110.070 | 018 | Methyl Formate | EPA 1666 |
| 110.070 | 019 | 4-Methyl-2-pentanone (MIBK) | EPA 1666 |
| 110.070 | 021 | Tetrahydrofuran | EPA 1666 |
| 110.070 | 022 | Triethylamine | EPA 1666 |
| 110.070 | 023 | m-Xylene | EPA 1666 |

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|---|---|---|---|
| 110.070 | 024 | o-Xylene | EPA 1666 |
| 110.070 | 025 | p-Xylene | EPA 1666 |

**Field of Testing:** 111 - Semi-volatile Organic Constituents in Non-Potable Water

| | | | |
|---|---|---|---|
| 111.055 | 001 | Aldrin | EPA 608.3 |
| 111.055 | 002 | alpha-BHC | EPA 608.3 |
| 111.055 | 003 | beta-BHC | EPA 608.3 |
| 111.055 | 004 | delta-BHC | EPA 608.3 |
| 111.055 | 005 | gamma-BHC (Lindane) | EPA 608.3 |
| 111.055 | 006 | Chlordane | EPA 608.3 |
| 111.055 | 007 | 4,4'-DDD | EPA 608.3 |
| 111.055 | 008 | 4,4'-DDE | EPA 608.3 |
| 111.055 | 009 | 4,4'-DDT | EPA 608.3 |
| 111.055 | 010 | Dieldrin | EPA 608.3 |
| 111.055 | 011 | Endosulfan I | EPA 608.3 |
| 111.055 | 012 | Endosulfan II | EPA 608.3 |
| 111.055 | 013 | Endosulfan Sulfate | EPA 608.3 |
| 111.055 | 014 | Endrin | EPA 608.3 |
| 111.055 | 015 | Endrin Aldehyde | EPA 608.3 |
| 111.055 | 016 | Heptachlor | EPA 608.3 |
| 111.055 | 017 | Heptachlor Epoxide | EPA 608.3 |
| 111.055 | 019 | PCB-1016 | EPA 608.3 |
| 111.055 | 020 | PCB-1221 | EPA 608.3 |
| 111.055 | 021 | PCB-1232 | EPA 608.3 |
| 111.055 | 022 | PCB-1242 | EPA 608.3 |
| 111.055 | 023 | PCB-1248 | EPA 608.3 |
| 111.055 | 024 | PCB-1254 | EPA 608.3 |
| 111.055 | 025 | PCB-1260 | EPA 608.3 |
| 111.055 | 046 | Methoxychlor | EPA 608.3 |
| 111.055 | 050 | Pentachloronitrobenzene (PCNB) | EPA 608.3 |
| 111.055 | 060 | Toxaphene | EPA 608.3 |
| 111.160 | 001 | Acenaphthene | EPA 625.1 |
| 111.160 | 002 | Acenaphthylene | EPA 625.1 |
| 111.160 | 003 | Anthracene | EPA 625.1 |
| 111.160 | 004 | Benzidine | EPA 625.1 |
| 111.160 | 005 | Benzo(a)anthracene | EPA 625.1 |
| 111.160 | 006 | Benzo(a)pyrene | EPA 625.1 |
| 111.160 | 007 | Benzo(b)fluoranthene | EPA 625.1 |
| 111.160 | 008 | Benzo(g,h,i)perylene | EPA 625.1 |
| 111.160 | 009 | Benzo(k)fluoranthene | EPA 625.1 |
| 111.160 | 010 | Bis(2-chloroethoxy) Methane | EPA 625.1 |
| 111.160 | 011 | Bis(2-chloroethyl) Ether | EPA 625.1 |
| 111.160 | 012 | Bis(2-chloroisopropyl) Ether | EPA 625.1 |

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|---|---|---|---|
| 111.160 | 013 | Bis(2-ethylhexyl)phthalate | EPA 625.1 |
| 111.160 | 014 | 4-Bromophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 015 | Butyl Benzyl Phthalate | EPA 625.1 |
| 111.160 | 016 | 2-Chloronaphthalene | EPA 625.1 |
| 111.160 | 017 | 4-Chlorophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 018 | Chrysene | EPA 625.1 |
| 111.160 | 019 | Dibenz(a,h)anthracene | EPA 625.1 |
| 111.160 | 020 | 3,3'-Dichlorobenzidine | EPA 625.1 |
| 111.160 | 021 | Diethyl Phthalate | EPA 625.1 |
| 111.160 | 022 | Dimethyl Phthalate | EPA 625.1 |
| 111.160 | 023 | Di-n-butyl Phthalate | EPA 625.1 |
| 111.160 | 024 | 2,4-Dinitrotoluene | EPA 625.1 |
| 111.160 | 025 | 2,6-Dinitrotoluene | EPA 625.1 |
| 111.160 | 026 | Di-n-octyl Phthalate | EPA 625.1 |
| 111.160 | 027 | Fluoranthene | EPA 625.1 |
| 111.160 | 028 | Fluorene | EPA 625.1 |
| 111.160 | 029 | Hexachlorobenzene | EPA 625.1 |
| 111.160 | 030 | Hexachlorobutadiene | EPA 625.1 |
| 111.160 | 031 | Hexachloroethane | EPA 625.1 |
| 111.160 | 032 | Indeno(1,2,3-c,d)pyrene | EPA 625.1 |
| 111.160 | 033 | Isophorone | EPA 625.1 |
| 111.160 | 034 | Naphthalene | EPA 625.1 |
| 111.160 | 035 | Nitrobenzene | EPA 625.1 |
| 111.160 | 036 | N-nitrosodi-n-propylamine | EPA 625.1 |
| 111.160 | 037 | Phenanthrene | EPA 625.1 |
| 111.160 | 038 | Pyrene | EPA 625.1 |
| 111.160 | 039 | 1,2,4-Trichlorobenzene | EPA 625.1 |
| 111.160 | 040 | 4-Chloro-3-methylphenol | EPA 625.1 |
| 111.160 | 041 | 2-Chlorophenol | EPA 625.1 |
| 111.160 | 042 | 2,4-Dichlorophenol | EPA 625.1 |
| 111.160 | 043 | 2,4-Dimethylphenol | EPA 625.1 |
| 111.160 | 044 | 2,4-Dinitrophenol | EPA 625.1 |
| 111.160 | 045 | 2-Methyl-4,6-dinitrophenol | EPA 625.1 |
| 111.160 | 046 | 2-Nitrophenol | EPA 625.1 |
| 111.160 | 047 | 4-Nitrophenol | EPA 625.1 |
| 111.160 | 048 | Pentachlorophenol | EPA 625.1 |
| 111.160 | 049 | Phenol | EPA 625.1 |
| 111.160 | 050 | 2,4,6-Trichlorophenol | EPA 625.1 |
| 111.210 | 006 | Diuron | EPA 632 |
| 111.260 | 041 | N-nitrosodimethylamine | EPA 1625 B |
| 111.260 | 042 | N-nitrosodi-n-propylamine | EPA 1625 B |
| 111.260 | 043 | N-nitrosodiphenylamine | EPA 1625 B |

| | | | |
|---|---|---|---|
| 111.345 | 001 | N-Ethylperfluorooctane Sulfonamido Acetic Acid (NEt | DoD QSM Version 5.1 (or newer) |
| 111.345 | 002 | 4:2 Fluorotelomer Sulfonic Acid (4:2 FTS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 003 | 6:2 Fluorotelomer Sulfonic Acid (6:2 FTS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 004 | 8:2 Fluorotelomer Sulfonic Acid (8:2 FTS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 005 | N-Methylperfluorooctane Sulfonamido Acetic Acid (N | DoD QSM Version 5.1 (or newer) |
| 111.345 | 006 | Perfluorobutanoic Acid (PFBA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 007 | Perfluorobutane Sulfonic Acid (PFBS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 008 | Perfluorodecanoic Acid (PFDA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 009 | Perfluorododecanoic Acid (PFDoA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 010 | Perfluorodecane Sulfonic Acid (PFDS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 011 | Perfluoroheptanoic Acid (PFHpA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 012 | Perfluoroheptane Sulfonic Acid (PFHpS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 013 | Perfluorohexane Sulfonic Acid (PFHxS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 014 | Perfluorohexanoic Acid (PFHxA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 015 | Perfluorononanoic Acid (PFNA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 016 | Perfluorooctanoic Acid (PFOA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 017 | Perfluorooctane Sulfonic Acid (PFOS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 018 | Perfluorooctane Sulfonamide (PFOSAm) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 019 | Perfluoropentanoic Acid (PFPeA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 020 | Perfluoropentane Sulfonic Acid (PFPeS) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 021 | Perfluorotetradecanoic Acid (PFTA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 022 | Perfluorotridecanoic Acid (PFTrDA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 023 | Perfluoroundecanoic Acid (PFUnDA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 024 | 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | DoD QSM Version 5.1 (or newer) |
| 111.345 | 025 | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | DoD QSM Version 5.1 (or newer) |
| 111.345 | 026 | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 027 | N-Ethylperfluorooctane Sulfonamide (EtFOSAm) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 028 | N-Ethylperfluorooctane Sulfonamido Ethanol (EtFOS | DoD QSM Version 5.1 (or newer) |
| 111.345 | 030 | Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 031 | N-Methylperfluorooctane Sulfonamide (MeFOSAm) | DoD QSM Version 5.1 (or newer) |
| 111.345 | 032 | N-Methylperfluorooctane Sulfonamido Ethanol (MeF | DoD QSM Version 5.1 (or newer) |
| 111.345 | 034 | Perfluorononane Sulfonic Acid (PFNS) | DoD QSM Version 5.1 (or newer) |

**Field of Testing:** 112 - Radionuclides in Non-Potable Water

| | | | |
|---|---|---|---|
| 112.001 | 001 | Gross Alpha | EPA 900.0 |
| 112.001 | 002 | Gross Beta | EPA 900.0 |

**Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |

| | | | |
|---|---|---|---|
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.106 | 001 | Chromium (VI) | EPA 7199 |
| 114.140 | 001 | Mercury | EPA 7470 A |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.222 | 001 | Cyanide, Total | EPA 9014 |
| 114.240 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |
| 114.250 | 001 | Fluoride | EPA 9056 |

**Field of Testing:** 115 - Extraction Test of Hazardous Waste

| | | | |
|---|---|---|---|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 |
| 115.022 | 001 | TCLP Extractables | EPA 1311 |
| 115.023 | 001 | TCLP Volatiles | EPA 1311 |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |
| 115.040 | 001 | Synthetic Precipitation Leaching Procedure (SPLP) | EPA 1312 |

**Field of Testing:** 116 - Volatile Organic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 116.020 | 030 | Nonhalogenated Volatiles | EPA 8015 B |

| | | | |
|---|---|---|---|
| 116.020 | 031 | Ethanol and Methanol | EPA 8015 B |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.090 | 000 | Acrylamide, Acrylonitrile, Acrolein | EPA 8316 |
| 116.100 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT GC/MS |

**Field of Testing:** 117 - Semi-volatile Organic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.111 | 071 | Pesticides | EPA 8270 C |
| 117.150 | 000 | Carbonyl Compounds | EPA 8315 A |
| 117.171 | 000 | Nitroaromatics and Nitramines | EPA 8330 A |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.220 | 000 | PCBs | EPA 8082 |
| 117.240 | 000 | Organophosphorus Pesticides | EPA 8141 A |
| 117.250 | 000 | Chlorinated Herbicides | EPA 8151 A |
| 117.270 | 000 | Carbamates, N-methylcarbamates | EPA 8318 |
| 117.280 | 000 | Carbamates | EPA 8321 A |

**Field of Testing:** 120 - Physical Properties of Hazardous Waste

| | | | |
|---|---|---|---|
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.070 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 126 - Microbiological Methods for Ambient Water

| | | | |
|---|---|---|---|
| 126.003 | 001 | Total Coliform (Enumeration) | SM 9221 B,C-2006 |
| 126.003 | 002 | Fecal Coliform (Enumeration) | SM 9221 C,E-2006 |
| 126.007 | 001 | E. coli (Enumeration) | SM 9223 B-2004 |
| 126.015 | 001 | E. coli (Enumeration) | Colilert |
| 126.017 | 001 | E. coli (Enumeration) | Colilert 18 |
| 126.019 | 001 | Enterococci | Enterolert |

| | | | ACCREDITED FIELD OF TESTING (FOT) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LABORATORY** | **ELAP** | **EXPIRES** | **101** | **102** | **103** | **104** | **105** | **106** | **107** | **108** | **109** | **110** | **111** | **112** | **113** | **114** | **115** | **116** | **117** | **118** | **119** | **120** | **121** | **122** | **123** | **124** | **125** | **126** | **127** | **128** | **129** |
| AmeriSci | 2508 | 06/30/2021 | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CERES Analytical Laboratory | 3046 | 04/30/2021 | | | | | X | | | | | | X | | | | | | X | | | | | | | | | | | | |
| Enthalpy Analytical | 2896 | 01/31/2021 | | X | | | | | | X | X | X | X | | | X | X | X | X | | | X | | | | | | | | | |
| Eurofins Calscience | 2944 | 06/30/2021 | | X | X | X | | | | X | X | X | X | | | X | X | X | X | | X | X | | | | | | | | | |
| Fruit Growers Laboratory | 1573 | 07/31/2021 | X | X | X | X | X | X | X | X | X | X | X | | | X | X | X | X | | | | | | | | | X | | | |
| LA Testing | 1406 | 01/31/2022 | | | | | | | | | | | | | | X | X | | | | | X | X | | | | | | | | |
| North Coast Laboratories | 1247 | 07/31/2021 | X | X | X | X | X | | X | X | X | X | X | | | X | X | X | X | | | | | | | | | | | | |
| Pat-Chem Laboratories | 1531 | 05/31/2021 | X | X | X | X | X | | X | X | X | X | X | | | X | X | X | X | | | X | | | | | | X | | | |
| Weck Laboratories | 1132 | 03/31/2022 | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | | | X | | | | | | X | | | |

**FOT KEY:**

| |
|---|
| E101 - Microbiology of Drinking Water |
| E102 - Inorganic Chemistry of Drinking Water |
| E103 - Toxic Chemical Elements of Drinking Water |
| E104 - Volatile Organic Chemistry of Drinking Water |
| E105 - Semi-volatile Organic Chemistry of Drinking Water |
| E106 - Radiochemistry of Drinking Water |
| E107 - Microbiology of Wastewater |
| E108 - Inorganic Chemistry of Wastewater |
| E109 - Toxic Chemical Elements of Wastewater |
| E110 - Volatile Organic Chemistry of Wastewater |
| E111 - Semi-volatile Organic Chemistry of Wastewater |
| E112 - Radiochemistry of Wastewater |
| E113 - Whole Effluent Toxicity of Wastewater |
| E114 - Inorganic Chemistry & Toxic Chemical Elements of Hazardous Waste |
| E115 - Extraction Test of Hazardous Waste |

| |
|---|
| E116 - Volatile Organic Chemistry of Hazardous Waste |
| E117 - Semi-volatile Organic Chemistry of Hazardous Waste |
| E118 - Radiochemistry of Hazardous Waste |
| E119 - Toxicity Bioassay of Hazardous Waste |
| E120 - Physical Properties of Hazardous Waste |
| E121 - Bulk Asbestos Analysis of Hazardous Waste |
| E122 - Microbiology of Food (under development) |
| E123 - Inorganic Chemistry and Toxic Chemical Elements of Pesticide Residues in Food (under development) |
| E124 - Organic Chemistry of Pesticide Residues in Food (measurements by MS techniques) |
| E125 - Organic Chemistry of Pesticide Residues in Food (excluding measurements by MS techniques) |
| E126 - Microbiology of Recreational Water |
| E127 - Shellfish Sanitation |
| E128 - Air Quality Monitoring (under development) |
| E129 - Parasites in Potable Water |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**America Science Team of Richmond, Inc. dba AmeriSci Richmond**

13635 Genito Road

Midlothian, VA 23112

Phone: (804) 763-1200

**Certificate No.** **2508 RECIPROCITY**

**Expiration Date** **6/30/2021**

***As of 7/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 121 – Bulk Asbestos Analysis of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method | Primary Accreditation Body |
|---|---|---|---|---|
| 121.010 | 001 | Bulk Asbestos | EPA 600/M4-82-020 | NVLAP |

**CALIFORNIA STATE**
**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**
**Accredited Fields of Testing**

**Ceres Analytical Laboratory, Inc.**

4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone: 9169325011

**Certificate No.** **3046**
**Expiration Date** **4/30/2021**

| | | | |
|---|---|---|---|
| **Field of Testing:** | 105 - Semi-volatile Organic Chemistry of Drinking Water | | |
| 105.230 | 000 | Dioxins | EPA 1613 B |
| 105.230 | 001 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | EPA 1613 B |
| 105.230 | 002 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Screen | EPA 1613 B |
| **Field of Testing:** | 111 - Semi-volatile Organic Chemistry of Wastewater | | |
| 111.111 | 000 | Dioxins and Dibenzofurans | EPA 1613 B |
| **Field of Testing:** | 117 - Semi-volatile Organic Chemistry of Hazardous Waste | | |
| 117.130 | 000 | Dioxins and Dibenzofurans | EPA 8290 |

As of 5/15/2019 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

# CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

**Enthalpy Analytical LLC**

2323 Fifth Street

Berkeley, CA 94710

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2896**

Expiration Date: **1/31/2021**

Effective Date: **2/1/2019**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

**CALIFORNIA STATE**
**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**
**Accredited Fields of Testing**

**Enthalpy Analytical LLC**

2323 Fifth Street
Berkeley, CA 94710
Phone: (510) 486-0900

**Certificate No.** **2896**
**Expiration Date** **1/31/2021**

**Field of Testing:** 102 - Inorganic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 102.045 | 001 | Perchlorate | EPA 314.0 |

**Field of Testing:** 108 - Inorganic Chemistry of Wastewater

| | | | |
|---|---|---|---|
| 108.112 | 002 | Calcium | EPA 200.7 |
| 108.112 | 004 | Magnesium | EPA 200.7 |
| 108.112 | 005 | Potassium | EPA 200.7 |
| 108.112 | 007 | Sodium | EPA 200.7 |
| 108.120 | 001 | Chlorine, Total Residual | SM 4500-Cl C-2011 |
| 108.120 | 002 | Chloride | EPA 300.0 |
| 108.120 | 003 | Fluoride | EPA 300.0 |
| 108.120 | 008 | Sulfate (as SO4) | EPA 300.0 |
| 108.120 | 012 | Nitrate (as N) | EPA 300.0 |
| 108.120 | 014 | Nitrite (as N) | EPA 300.0 |
| 108.360 | 001 | Phenols, Total | EPA 420.1 |
| 108.381 | 001 | Oil and Grease | EPA 1664 A |
| 108.390 | 001 | Turbidity | SM 2130 B-2001 |
| 108.410 | 001 | Alkalinity | SM 2320 B-1997 |
| 108.420 | 001 | Hardness (Calculation) | SM 2340 B-1997 |
| 108.430 | 001 | Specific Conductance | SM 2510 B-1997 |
| 108.440 | 001 | Residue, Total | SM 2540 B-1997 |
| 108.441 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 108.442 | 001 | Residue, Non-filterable TSS | SM 2540 D-1997 |
| 108.465 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 108.472 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 108.490 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 108.501 | 002 | Kjeldahl Nitrogen,Total (as N) | SM 4500-NH3 C-1997 |
| 108.502 | 002 | Ammonia (as N) | SM 4500-NH3 B,E-1997 |
| 108.540 | 001 | Phosphate,Ortho (as P) | SM 4500-P E-1999 |
| 108.541 | 001 | Phosphorus,Total | SM 4500-P E-1999 |
| 108.552 | 001 | Silica, Dissolved | SM 4500-SiO2 C-1997 |
| 108.584 | 001 | Sulfide (as S) | SM 4500-S D-2000 |
| 108.592 | 001 | Biochemical Oxygen Demand | SM 5210 B -2001 |
| 108.595 | 001 | Chemical Oxygen Demand | SM 5220 D-1997 |
| 108.597 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |

| | | | |
|---|---|---|---|
| 108.605 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 109 - Toxic Chemical Elements of Wastewater

| | | | |
|---|---|---|---|
| 109.010 | 001 | Aluminum | EPA 200.7 |
| 109.010 | 002 | Antimony | EPA 200.7 |
| 109.010 | 003 | Arsenic | EPA 200.7 |
| 109.010 | 004 | Barium | EPA 200.7 |
| 109.010 | 005 | Beryllium | EPA 200.7 |
| 109.010 | 006 | Boron | EPA 200.7 |
| 109.010 | 007 | Cadmium | EPA 200.7 |
| 109.010 | 009 | Chromium | EPA 200.7 |
| 109.010 | 010 | Cobalt | EPA 200.7 |
| 109.010 | 011 | Copper | EPA 200.7 |
| 109.010 | 012 | Iron | EPA 200.7 |
| 109.010 | 013 | Lead | EPA 200.7 |
| 109.010 | 015 | Manganese | EPA 200.7 |
| 109.010 | 016 | Molybdenum | EPA 200.7 |
| 109.010 | 017 | Nickel | EPA 200.7 |
| 109.010 | 019 | Selenium | EPA 200.7 |
| 109.010 | 021 | Silver | EPA 200.7 |
| 109.010 | 023 | Thallium | EPA 200.7 |
| 109.010 | 024 | Tin | EPA 200.7 |
| 109.010 | 025 | Titanium | EPA 200.7 |
| 109.010 | 026 | Vanadium | EPA 200.7 |
| 109.010 | 027 | Zinc | EPA 200.7 |
| 109.020 | 001 | Aluminum | EPA 200.8 |
| 109.020 | 002 | Antimony | EPA 200.8 |
| 109.020 | 003 | Arsenic | EPA 200.8 |
| 109.020 | 004 | Barium | EPA 200.8 |
| 109.020 | 005 | Beryllium | EPA 200.8 |
| 109.020 | 006 | Cadmium | EPA 200.8 |
| 109.020 | 007 | Chromium | EPA 200.8 |
| 109.020 | 008 | Cobalt | EPA 200.8 |
| 109.020 | 009 | Copper | EPA 200.8 |
| 109.020 | 010 | Lead | EPA 200.8 |
| 109.020 | 011 | Manganese | EPA 200.8 |
| 109.020 | 012 | Molybdenum | EPA 200.8 |
| 109.020 | 013 | Nickel | EPA 200.8 |
| 109.020 | 014 | Selenium | EPA 200.8 |
| 109.020 | 015 | Silver | EPA 200.8 |
| 109.020 | 016 | Thallium | EPA 200.8 |
| 109.020 | 017 | Vanadium | EPA 200.8 |
| 109.020 | 018 | Zinc | EPA 200.8 |

| | | | | |
|---|---|---|---|---|
| 109.190 | 001 | Mercury | EPA 245.1 | |
| **Field of Testing:** 110 - Volatile Organic Chemistry of Wastewater | | | | |
| 110.040 | 000 | Purgeable Organic Compounds | EPA 624 | |
| **Field of Testing:** 111 - Semi-volatile Organic Chemistry of Wastewater | | | | |
| 111.100 | 000 | Base/Neutral & Acid Organics | EPA 625 | |
| 111.170 | 000 | Organochlorine Pesticides and PCBs | EPA 608 | |
| **Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste | | | | |
| 114.010 | 001 | Antimony | EPA 6010 B | |
| 114.010 | 002 | Arsenic | EPA 6010 B | |
| 114.010 | 003 | Barium | EPA 6010 B | |
| 114.010 | 004 | Beryllium | EPA 6010 B | |
| 114.010 | 005 | Cadmium | EPA 6010 B | |
| 114.010 | 006 | Chromium | EPA 6010 B | |
| 114.010 | 007 | Cobalt | EPA 6010 B | |
| 114.010 | 008 | Copper | EPA 6010 B | |
| 114.010 | 009 | Lead | EPA 6010 B | |
| 114.010 | 010 | Molybdenum | EPA 6010 B | |
| 114.010 | 011 | Nickel | EPA 6010 B | |
| 114.010 | 012 | Selenium | EPA 6010 B | |
| 114.010 | 013 | Silver | EPA 6010 B | |
| 114.010 | 014 | Thallium | EPA 6010 B | |
| 114.010 | 015 | Vanadium | EPA 6010 B | |
| 114.010 | 016 | Zinc | EPA 6010 B | |
| 114.020 | 001 | Antimony | EPA 6020 | |
| 114.020 | 002 | Arsenic | EPA 6020 | |
| 114.020 | 003 | Barium | EPA 6020 | |
| 114.020 | 004 | Beryllium | EPA 6020 | |
| 114.020 | 005 | Cadmium | EPA 6020 | |
| 114.020 | 006 | Chromium | EPA 6020 | |
| 114.020 | 007 | Cobalt | EPA 6020 | |
| 114.020 | 008 | Copper | EPA 6020 | |
| 114.020 | 009 | Lead | EPA 6020 | |
| 114.020 | 010 | Molybdenum | EPA 6020 | |
| 114.020 | 011 | Nickel | EPA 6020 | |
| 114.020 | 012 | Selenium | EPA 6020 | |
| 114.020 | 013 | Silver | EPA 6020 | |
| 114.020 | 014 | Thallium | EPA 6020 | |
| 114.020 | 015 | Vanadium | EPA 6020 | |
| 114.020 | 016 | Zinc | EPA 6020 | |
| 114.103 | 001 | Chromium (VI) | EPA 7196 A | Aqueous Only |
| 114.106 | 001 | Chromium (VI) | EPA 7199 | Aqueous Only |
| 114.140 | 001 | Mercury | EPA 7470 A | Aqueous Only |

| | | | | |
|---|---|---|---|---|
| 114.141 | 001 | Mercury | EPA 7471 A | |
| 114.222 | 001 | Cyanide, Total | EPA 9014 | |
| 114.230 | 001 | Sulfides, Total | EPA 9034 | Interim |
| 114.240 | 001 | Corrosivity - pH Determination | EPA 9040 B | Interim |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C | |
| 114.250 | 001 | Fluoride | EPA 9056 | Interim |

**Field of Testing:** 115 - Extraction Test of Hazardous Waste

| | | | | |
|---|---|---|---|---|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 (TCLP) | |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II | |
| 115.040 | 001 | Synthetic Precipitation Leaching Procedure (SPLP) | EPA 1312 (SPLP) | |

**Field of Testing:** 116 - Volatile Organic Chemistry of Hazardous Waste

| | | | | |
|---|---|---|---|---|
| 116.030 | 001 | Gasoline-range Organics | EPA 8015 B | |
| 116.040 | 041 | Methyl tert-butyl Ether (MTBE) | EPA 8021 B | |
| 116.040 | 062 | BTEX | EPA 8021 B | |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B | |

**Field of Testing:** 117 - Semi-volatile Organic Chemistry of Hazardous Waste

| | | | | |
|---|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B | |
| 117.110 | 000 | Extractable Organics | EPA 8270 C | |
| 117.140 | 000 | Polynuclear Aromatic Hydrocarbons | EPA 8310 | Aqueous Only |
| 117.170 | 000 | Nitroaromatics and Nitramines | EPA 8330 | Aqueous Only |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A | Aqueous Only |
| 117.220 | 000 | PCBs | EPA 8082 | Aqueous Only |

**Field of Testing:** 120 - Physical Properties of Hazardous Waste

| | | | | |
|---|---|---|---|---|
| 120.010 | 001 | Ignitability | EPA 1010 | |
| 120.070 | 001 | Corrosivity - pH Determination | EPA 9040 B | Interim |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045 C | |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**Eurofins Calscience**

Irvine

17461 Derian Avenue

Irvine, CA 92614-5817

Phone: (949) 261-1022

**Certificate No.** **2706**

**Expiration Date** **6/30/2021** **INTERIM**

***As of 7/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.015 | 001 | Hydrogen Ion (pH) | EPA 150.1 |
| 102.020 | 001 | Turbidity | EPA 180.1 |
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 004 | Silica | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.026 | 006 | Hardness (Calculation) | EPA 200.7 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 008 | Phosphate, Ortho (as P) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.040 | 001 | Bromide | EPA 300.1 |
| 102.040 | 002 | Chlorite | EPA 300.1 |
| 102.040 | 003 | Chlorate | EPA 300.1 |
| 102.040 | 004 | Bromate | EPA 300.1 |
| 102.045 | 001 | Perchlorate | EPA 314.0 |
| 102.095 | 001 | Turbidity | SM 2130 B-2001 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.120 | 001 | Hardness (Calculation) | SM 2340 B-1997 |
| 102.121 | 001 | Hardness | SM 2340 C-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.190 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 102.200 | 001 | Fluoride | SM 4500-F C-1997 |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 102.262 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |
| 102.263 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 C-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |
| 102.564 | 001 | Cyanide, Total | Kelada-01 |

**Field of Testing:** 103 – Toxic Chemical Elements of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |
| 103.310 | 001 | Chromium (VI) | EPA 218.6 |
| 103.311 | 001 | Chromium (VI) | EPA 218.7 |

**Field of Testing:** 104 – Volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethene (1,1-Dichloroethylene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethene | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethene | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropene | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropene | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethene | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 059 | o-Xylene | EPA 524.2 |
| 104.040 | 061 | Carbon Disulfide | EPA 524.2 |
| 104.040 | 062 | Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.040 | 063 | m+p-Xylene | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane (Freon 113) | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 106 – Radionuclides in Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 106.092 | 001 | Uranium | EPA 200.8 |

**Field of Testing:** 108 – Inorganic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.001 | 001 | Specific Conductance | EPA 120.1 (1982 Rev.1.0) |
| 108.007 | 001 | Residue, Volatile | EPA 160.4 (1971) |
| 108.009 | 001 | Turbidity | EPA 180.1 (1993 Rev. 2.0) |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 003 | Phosphorus, Total | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 005 | Silica, Dissolved | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) |
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 007 | Phosphate, Ortho (as P) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) |
| 108.025 | 001 | Ammonia (as N) | EPA 350.1 (1993 Rev. 2.0) |
| 108.029 | 001 | Kjeldahl Nitrogen, Total (as N) | EPA 351.2 (1993 Rev. 2.0) |
| 108.037 | 001 | Phosphate, Ortho (as P) | EPA 365.3 (1978) |
| 108.037 | 002 | Phosphorus, Total | EPA 365.3 (1978) |
| 108.045 | 001 | Chemical Oxygen Demand | EPA 410.4 (1993 Rev. 2.0) |
| 108.053 | 001 | Oil & Grease Total | EPA 1664 A |
| 108.053 | 002 | Oil & Grease Total | EPA 1664 B |
| 108.055 | 001 | Color | SM 2120 B-2011 |
| 108.059 | 001 | Turbidity | SM 2130 B-2011 |
| 108.061 | 001 | Acidity | SM 2310 B-2011 |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 |
| 108.065 | 001 | Hardness (Calculation) | SM 2340 B-2011 |
| 108.067 | 001 | Hardness | SM 2340 C-2011 |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 |
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 |
| 108.075 | 001 | Residue, Non-filterable TSS | SM 2540 D-2011 |
| 108.077 | 001 | Residue, Volatile | SM 2540 E-2011 |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 |
| 108.114 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2011 |
| 108.114 | 002 | Chlorine, Free | SM 4500-Cl G-2011 |
| 108.125 | 001 | Cyanide, Total | SM 4500-CN E-2011 |
| 108.129 | 001 | Cyanide, Available | SM 4500-CN G-2011 |
| 108.131 | 001 | Fluoride | SM 4500-F C-2011 |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 |
| 108.140 | 001 | Ammonia (as N) | SM 4500-NH3 D-2011 |
| 108.147 | 001 | Ammonia (as N) | SM 4500-NH3 G-2011 |
| 108.173 | 001 | Oxygen, Dissolved | SM 4500-O G-2011 |
| 108.201 | 001 | Sulfide (as S) | SM 4500-S D-2011 |
| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 |
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 |
| 108.213 | 001 | Chemical Oxygen Demand | SM 5220 D-2011 |
| 108.215 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2011 |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 |
| 108.335 | 001 | Cyanide, Total | Kelada-01 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 002 | Antimony | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 003 | Arsenic | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 004 | Barium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 005 | Beryllium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 007 | Cadmium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 008 | Chromium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 009 | Cobalt | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 010 | Copper | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 012 | Lead | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 013 | Manganese | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 014 | Molybdenum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 015 | Nickel | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 016 | Selenium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 017 | Silver | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 018 | Thallium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 019 | Tin | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 020 | Titanium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 021 | Vanadium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 022 | Zinc | EPA 200.7 (1994 Rev. 4.4) |
| 109.625 | 001 | Aluminum | EPA 200.8 (1994 Rev. 5.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 012 | Iron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 020 | Tin | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) |
| 109.629 | 001 | Chromium (VI) | EPA 218.6 (1994 Rev. 3.3) |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) |
| 109.685 | 002 | Chromium (VI) | SM 3500-Cr B-2011 |
| 109.693 | 001 | Iron | SM 3500-Fe B-2011 |

**Field of Testing:** 110 – Volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 001 | Acetone | EPA 624.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 002 | Acetonitrile | EPA 624.1 |
| 110.040 | 003 | Acrolein | EPA 624.1 |
| 110.040 | 004 | Acrylonitrile | EPA 624.1 |
| 110.040 | 005 | Benzene | EPA 624.1 |
| 110.040 | 006 | Bromodichloromethane | EPA 624.1 |
| 110.040 | 007 | Bromoform | EPA 624.1 |
| 110.040 | 008 | Bromomethane (Methyl Bromide) | EPA 624.1 |
| 110.040 | 009 | tert-Butyl Alcohol (TBA) | EPA 624.1 |
| 110.040 | 010 | Carbon Tetrachloride | EPA 624.1 |
| 110.040 | 011 | Chlorobenzene | EPA 624.1 |
| 110.040 | 012 | Chloroethane | EPA 624.1 |
| 110.040 | 013 | 2-Chloroethylvinyl Ether | EPA 624.1 |
| 110.040 | 014 | Chloroform | EPA 624.1 |
| 110.040 | 015 | Chloromethane (Methyl Chloride) | EPA 624.1 |
| 110.040 | 016 | Dibromochloromethane | EPA 624.1 |
| 110.040 | 017 | 1,2-Dichlorobenzene | EPA 624.1 |
| 110.040 | 018 | 1,3-Dichlorobenzene | EPA 624.1 |
| 110.040 | 019 | 1,4-Dichlorobenzene | EPA 624.1 |
| 110.040 | 020 | 1,1-Dichloroethane | EPA 624.1 |
| 110.040 | 021 | 1,2-Dichloroethane | EPA 624.1 |
| 110.040 | 022 | 1,1-Dichloroethene (1,1-Dichloroethylene) | EPA 624.1 |
| 110.040 | 023 | trans-1,2-Dichloroethene | EPA 624.1 |
| 110.040 | 024 | 1,2-Dichloropropane | EPA 624.1 |
| 110.040 | 025 | cis-1,3-Dichloropropene | EPA 624.1 |
| 110.040 | 026 | trans-1,3-Dichloropropene | EPA 624.1 |
| 110.040 | 029 | Ethylbenzene | EPA 624.1 |
| 110.040 | 031 | Methylene Chloride (Dichloromethane) | EPA 624.1 |
| 110.040 | 032 | 4-Methyl-2-pentanone (MIBK) | EPA 624.1 |
| 110.040 | 034 | 1,1,2,2-Tetrachloroethane | EPA 624.1 |
| 110.040 | 035 | Tetrachloroethylene (Tetrachloroethene) | EPA 624.1 |
| 110.040 | 037 | Toluene | EPA 624.1 |
| 110.040 | 038 | 1,1,1-Trichloroethane | EPA 624.1 |
| 110.040 | 039 | 1,1,2-Trichloroethane | EPA 624.1 |
| 110.040 | 040 | Trichloroethene | EPA 624.1 |
| 110.040 | 041 | Vinyl Chloride | EPA 624.1 |
| 110.040 | 043 | o-Xylene | EPA 624.1 |
| 110.040 | 045 | Trichlorofluoromethane | EPA 624.1 |
| 110.040 | 046 | m+p-Xylene | EPA 624.1 |
| 110.040 | 047 | 2-Butanone (MEK) | EPA 624.1 |

**Field of Testing:** 111 – Semi-volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.055 | 001 | Aldrin | EPA 608.3 |
| 111.055 | 002 | alpha-BHC | EPA 608.3 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.055 | 003 | beta-BHC | EPA 608.3 |
| 111.055 | 004 | delta-BHC | EPA 608.3 |
| 111.055 | 005 | gamma-BHC (Lindane) | EPA 608.3 |
| 111.055 | 006 | Chlordane | EPA 608.3 |
| 111.055 | 007 | 4,4'-DDD | EPA 608.3 |
| 111.055 | 008 | 4,4'-DDE | EPA 608.3 |
| 111.055 | 009 | 4,4'-DDT | EPA 608.3 |
| 111.055 | 010 | Dieldrin | EPA 608.3 |
| 111.055 | 011 | Endosulfan I | EPA 608.3 |
| 111.055 | 012 | Endosulfan II | EPA 608.3 |
| 111.055 | 013 | Endosulfan Sulfate | EPA 608.3 |
| 111.055 | 014 | Endrin | EPA 608.3 |
| 111.055 | 015 | Endrin Aldehyde | EPA 608.3 |
| 111.055 | 016 | Heptachlor | EPA 608.3 |
| 111.055 | 017 | Heptachlor Epoxide | EPA 608.3 |
| 111.055 | 019 | PCB-1016 | EPA 608.3 |
| 111.055 | 020 | PCB-1221 | EPA 608.3 |
| 111.055 | 021 | PCB-1232 | EPA 608.3 |
| 111.055 | 022 | PCB-1242 | EPA 608.3 |
| 111.055 | 023 | PCB-1248 | EPA 608.3 |
| 111.055 | 024 | PCB-1254 | EPA 608.3 |
| 111.055 | 025 | PCB-1260 | EPA 608.3 |
| 111.055 | 046 | Methoxychlor | EPA 608.3 |
| 111.055 | 060 | Toxaphene | EPA 608.3 |
| 111.160 | 001 | Acenaphthene | EPA 625.1 |
| 111.160 | 002 | Acenaphthylene | EPA 625.1 |
| 111.160 | 003 | Anthracene | EPA 625.1 |
| 111.160 | 004 | Benzidine | EPA 625.1 |
| 111.160 | 005 | Benzo(a)anthracene | EPA 625.1 |
| 111.160 | 006 | Benzo(a)pyrene | EPA 625.1 |
| 111.160 | 007 | Benzo(b)fluoranthene | EPA 625.1 |
| 111.160 | 008 | Benzo(g,h,i)perylene | EPA 625.1 |
| 111.160 | 009 | Benzo(k)fluoranthene | EPA 625.1 |
| 111.160 | 010 | Bis(2-chloroethoxy) Methane | EPA 625.1 |
| 111.160 | 011 | Bis(2-chloroethyl) Ether | EPA 625.1 |
| 111.160 | 012 | Bis(2-chloroisopropyl) Ether | EPA 625.1 |
| 111.160 | 013 | Bis(2-ethylhexyl)phthalate | EPA 625.1 |
| 111.160 | 014 | 4-Bromophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 015 | Butyl Benzyl Phthalate | EPA 625.1 |
| 111.160 | 016 | 2-Chloronaphthalene | EPA 625.1 |
| 111.160 | 017 | 4-Chlorophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 018 | Chrysene | EPA 625.1 |
| 111.160 | 019 | Dibenz(a,h)anthracene | EPA 625.1 |
| 111.160 | 020 | 3,3'-Dichlorobenzidine | EPA 625.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.160 | 021 | Diethyl Phthalate | EPA 625.1 |
| 111.160 | 022 | Dimethyl Phthalate | EPA 625.1 |
| 111.160 | 023 | Di-n-butyl Phthalate | EPA 625.1 |
| 111.160 | 024 | 2,4-Dinitrotoluene | EPA 625.1 |
| 111.160 | 025 | 2,6-Dinitrotoluene | EPA 625.1 |
| 111.160 | 026 | Di-n-octyl Phthalate | EPA 625.1 |
| 111.160 | 027 | Fluoranthene | EPA 625.1 |
| 111.160 | 028 | Fluorene | EPA 625.1 |
| 111.160 | 029 | Hexachlorobenzene | EPA 625.1 |
| 111.160 | 030 | Hexachlorobutadiene | EPA 625.1 |
| 111.160 | 031 | Hexachloroethane | EPA 625.1 |
| 111.160 | 032 | Indeno(1,2,3-c,d)pyrene | EPA 625.1 |
| 111.160 | 033 | Isophorone | EPA 625.1 |
| 111.160 | 034 | Naphthalene | EPA 625.1 |
| 111.160 | 035 | Nitrobenzene | EPA 625.1 |
| 111.160 | 036 | N-nitrosodi-n-propylamine | EPA 625.1 |
| 111.160 | 037 | Phenanthrene | EPA 625.1 |
| 111.160 | 038 | Pyrene | EPA 625.1 |
| 111.160 | 039 | 1,2,4-Trichlorobenzene | EPA 625.1 |
| 111.160 | 040 | 4-Chloro-3-methylphenol | EPA 625.1 |
| 111.160 | 041 | 2-Chlorophenol | EPA 625.1 |
| 111.160 | 042 | 2,4-Dichlorophenol | EPA 625.1 |
| 111.160 | 043 | 2,4-Dimethylphenol | EPA 625.1 |
| 111.160 | 044 | 2,4-Dinitrophenol | EPA 625.1 |
| 111.160 | 045 | 2-Methyl-4,6-dinitrophenol | EPA 625.1 |
| 111.160 | 046 | 2-Nitrophenol | EPA 625.1 |
| 111.160 | 047 | 4-Nitrophenol | EPA 625.1 |
| 111.160 | 048 | Pentachlorophenol | EPA 625.1 |
| 111.160 | 049 | Phenol | EPA 625.1 |
| 111.160 | 050 | 2,4,6-Trichlorophenol | EPA 625.1 |
| 111.160 | 098 | Hexachlorocyclopentadiene | EPA 625.1 |
| 111.160 | 108 | N-nitrosodimethylamine | EPA 625.1 |
| 111.160 | 110 | N-nitrosodiphenylamine | EPA 625.1 |
| 111.160 | 141 | o-Cresol | EPA 625.1 |
| 111.160 | 145 | Pyridine | EPA 625.1 |
| 111.260 | 041 | N-nitrosodimethylamine | EPA 1625 B |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.103 | 001 | Chromium (VI) | EPA 7196 A |
| 114.106 | 001 | Chromium (VI) | EPA 7199 |
| 114.140 | 001 | Mercury | EPA 7470 A |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.222 | 001 | Cyanide, Total | EPA 9014 |
| 114.230 | 001 | Sulfides, Total | EPA 9034 |
| 114.240 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |
| 114.250 | 001 | Fluoride | EPA 9056 |
| 114.270 | 001 | Fluoride | EPA 9214 |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 (TCLP) |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 (TCLP) |
| 115.022 | 001 | TCLP Extractables | EPA 1311 (TCLP) |
| 115.023 | 001 | TCLP Volatiles | EPA 1311 (TCLP) |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |
| 115.040 | 001 | Synthetic Precipitation Leaching Procedure (SPLP) | EPA 1312 (SPLP) |

**Field of Testing:** 116 – Volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 116.030 | 001 | Gasoline-range Organics | EPA 8015 B |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.080 | 120 | Oxygenates | EPA 8260 B |
| 116.100 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT GC/MS |
| 116.110 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.016 | 001 | Diesel-range Total Petroleum Hydrocarbons | LUFT |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.150 | 000 | Carbonyl Compounds | EPA 8315 A |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.220 | 000 | PCBs | EPA 8082 |

**Field of Testing:** 120 – Physical Properties of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.020 | 001 | Ignitability | EPA 1020A |
| 120.070 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**Fruit Growers Laboratory, Inc.**

Santa Paula

853 Corporation Street

Santa Paula, CA 93060

Phone: (805) 392-2000

**Certificate No.** **1573**

**Expiration Date** **7/31/2021**

***As of 8/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 101 – Microbiology of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.020 | 001 | Total Coliform P/A | SM 9221 B |
| 101.020 | 002 | Fecal Coliform P/A | SM 9221 B, E |
| 101.020 | 004 | Total Coliform (Enumeration) | SM 9221 B, C |
| 101.020 | 005 | Fecal Coliform (Enumeration) | SM 9221 B, E |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert |
| 101.050 | 005 | Total Coliform P/A | SM 9223 B Colilert 18 |
| 101.050 | 006 | E. coli P/A | SM 9223 B Colilert 18 |
| 101.050 | 007 | Total Coliform (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 008 | E. coli (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 009 | Total Coliform P/A | SM 9223 B Colisure |
| 101.050 | 010 | E. coli P/A | SM 9223 B Colisure |
| 101.050 | 011 | Total Coliform (Enumeration) | SM 9223 B Colisure |
| 101.050 | 012 | E. coli (Enumeration) | SM 9223 B Colisure |
| 101.170 | 001 | Enterococci | Enterolert |

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 004 | Silica | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.026 | 006 | Hardness (Calculation) | EPA 200.7 |
| 102.030 | 001 | Bromide | EPA 300.0 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 008 | Phosphate, Ortho (as P) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.045 | 001 | Perchlorate | EPA 314.0 |
| 102.095 | 001 | Turbidity | SM 2130 B-2001 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.190 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 102.220 | 001 | Nitrite (as N) | SM 4500-NO2 B-2000 |
| 102.234 | 001 | Nitrite (as N) | SM 4500-NO3 F-2000 |
| 102.234 | 002 | Nitrate (as N) | SM 4500-NO3 F-2000 |
| 102.240 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-1999 |
| 102.262 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |
| 102.263 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 C-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 103 – Toxic Chemical Elements of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 017 | Boron | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |
| 103.310 | 001 | Chromium (VI) | EPA 218.6 |

**Field of Testing:** 104 – Volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.030 | 001 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 504.1 |
| 104.030 | 002 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 504.1 |
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 000 | Volatile Organic Compounds | EPA 524.2 |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.040 | 026 | cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethylene (trans-1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethylene (Trichloroethene) | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 057 | Xylenes, Total | EPA 524.2 |
| 104.045 | 000 | Trihalomethanes, Total | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.2 |
| 104.050 | 000 | Gasoline Additives | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 105 – Semi-volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.010 | 000 | Organochlorine Pesticides and PCBs | EPA 505 |
| 105.010 | 002 | Alachlor | EPA 505 |
| 105.010 | 004 | Chlordane | EPA 505 |
| 105.010 | 006 | Endrin | EPA 505 |
| 105.010 | 007 | Heptachlor | EPA 505 |
| 105.010 | 008 | Heptachlor Epoxide | EPA 505 |
| 105.010 | 009 | Hexachlorobenzene | EPA 505 |
| 105.010 | 010 | Hexachlorocyclopentadiene | EPA 505 |
| 105.010 | 011 | Lindane (HCH-gamma) | EPA 505 |
| 105.010 | 012 | Methoxychlor | EPA 505 |
| 105.010 | 014 | Toxaphene | EPA 505 |
| 105.010 | 015 | PCBs as Aroclors (screen) | EPA 505 |
| 105.030 | 000 | N-, P- Pesticides | EPA 507 |
| 105.030 | 001 | Alachlor | EPA 507 |
| 105.030 | 002 | Atrazine | EPA 507 |
| 105.030 | 003 | Butachlor | EPA 507 |
| 105.030 | 005 | Metolachlor | EPA 507 |
| 105.030 | 006 | Metribuzin | EPA 507 |
| 105.030 | 007 | Molinate | EPA 507 |
| 105.030 | 008 | Prometryn | EPA 507 |
| 105.030 | 009 | Simazine | EPA 507 |
| 105.082 | 000 | Chlorinated Acids | EPA 515.3 |
| 105.082 | 001 | 2,4-D | EPA 515.3 |
| 105.082 | 002 | Dinoseb | EPA 515.3 |
| 105.082 | 003 | Pentachlorophenol | EPA 515.3 |
| 105.082 | 004 | Picloram | EPA 515.3 |
| 105.082 | 005 | 2,4,5-TP (Silvex) | EPA 515.3 |
| 105.082 | 006 | Bentazon | EPA 515.3 |
| 105.082 | 007 | Dalapon | EPA 515.3 |
| 105.082 | 008 | Dicamba | EPA 515.3 |
| 105.100 | 000 | Carbamates | EPA 531.1 |
| 105.100 | 001 | Aldicarb | EPA 531.1 |
| 105.100 | 002 | Aldicarb Sulfone | EPA 531.1 |
| 105.100 | 003 | Aldicarb Sulfoxide | EPA 531.1 |
| 105.100 | 004 | Carbaryl | EPA 531.1 |
| 105.100 | 005 | Carbofuran | EPA 531.1 |
| 105.100 | 006 | 3-Hydroxycarbofuran | EPA 531.1 |
| 105.100 | 007 | Methomyl | EPA 531.1 |
| 105.100 | 008 | Oxamyl | EPA 531.1 |
| 105.120 | 001 | Glyphosate | EPA 547 |
| 105.140 | 001 | Endothall | EPA 548.1 |
| 105.150 | 001 | Diquat | EPA 549.2 |
| 105.175 | 001 | Bromodichloromethane | EPA 551.1 |
| 105.175 | 002 | Bromoform | EPA 551.1 |
| 105.175 | 003 | Chloroform | EPA 551.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.175 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 551.1 |
| 105.175 | 005 | Trihalomethanes | EPA 551.1 |
| 105.200 | 001 | Bromoacetic Acid | EPA 552.2 |
| 105.200 | 003 | Chloroacetic Acid | EPA 552.2 |
| 105.200 | 005 | Dibromoacetic Acid | EPA 552.2 |
| 105.200 | 006 | Dichloroacetic Acid | EPA 552.2 |
| 105.200 | 007 | Trichloroacetic Acid | EPA 552.2 |
| 105.200 | 008 | Haloacetic Acids (HAA5) | EPA 552.2 |

**Field of Testing:** 106 – Radionuclides in Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 106.010 | 001 | Gross Alpha | EPA 900.0 |
| 106.010 | 002 | Gross Beta | EPA 900.0 |
| 106.050 | 001 | Total Alpha Radium | EPA 903.0 |
| 106.050 | 002 | Radium-226 | EPA 903.0 |
| 106.080 | 001 | Tritium | EPA 906.0 |
| 106.092 | 001 | Uranium | EPA 200.8 |
| 106.170 | 001 | Radium-228 | EPA Ra-05 |
| 106.270 | 001 | Gross Alpha | SM 7110 C |
| 106.610 | 001 | Radon-222 | SM 7500-Rn |

**Field of Testing:** 107 – Microbiological Methods for Non-Potable Water and Sewage Sludge

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 107.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 107.020 | 002 | Total Coliform | SM 9221 B-2006 |
| 107.030 | 002 | Total Coliform with Chlorine Present | SM 9221 B-2006 |
| 107.040 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 107.050 | 002 | Fecal Coliform with Chlorine Present | SM 9221 C, E-2006 |
| 107.242 | 001 | Enterococci | Enterolert |
| 107.245 | 001 | E. coli (Enumeration) | SM 9223 B Colilert 18 |
| 107.245 | 002 | E. coli (Enumeration) | SM 9223 B Colilert |

**Field of Testing:** 108 – Inorganic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.090 | 001 | Residue, Volatile | EPA 160.4 |
| 108.112 | 001 | Boron | EPA 200.7 |
| 108.112 | 002 | Calcium | EPA 200.7 |
| 108.112 | 003 | Hardness (Calculation) | EPA 200.7 |
| 108.112 | 004 | Magnesium | EPA 200.7 |
| 108.112 | 005 | Potassium | EPA 200.7 |
| 108.112 | 006 | Silica, Dissolved | EPA 200.7 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.112 | 007 | Sodium | EPA 200.7 |
| 108.112 | 008 | Phosphorus, Total | EPA 200.7 |
| 108.113 | 001 | Boron | EPA 200.8 |
| 108.120 | 001 | Bromide | EPA 300.0 |
| 108.120 | 002 | Chloride | EPA 300.0 |
| 108.120 | 003 | Fluoride | EPA 300.0 |
| 108.120 | 008 | Sulfate (as SO4) | EPA 300.0 |
| 108.120 | 012 | Nitrate (as N) | EPA 300.0 |
| 108.120 | 013 | Nitrate-Nitrite (as N) | EPA 300.0 |
| 108.120 | 014 | Nitrite (as N) | EPA 300.0 |
| 108.120 | 015 | Phosphate, Ortho (as P) | EPA 300.0 |
| 108.211 | 002 | Kjeldahl Nitrogen, Total (as N) | EPA 351.2 |
| 108.267 | 001 | Phosphorus, Total | EPA 200.7 |
| 108.360 | 001 | Phenols, Total | EPA 420.1 |
| 108.381 | 001 | Oil & Grease Total | EPA 1664 A |
| 108.390 | 001 | Turbidity | SM 2130 B-2001 |
| 108.410 | 001 | Alkalinity | SM 2320 B-1997 |
| 108.430 | 001 | Specific Conductance | SM 2510 B-1997 |
| 108.440 | 001 | Residue, Total | SM 2540 B-1997 |
| 108.441 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 108.442 | 001 | Residue, Non-filterable TSS | SM 2540 D-1997 |
| 108.443 | 001 | Residue, Settleable | SM 2540 F-1997 |
| 108.465 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 108.470 | 001 | Cyanide, Total | SM 4500-CN B or C-1999 |
| 108.472 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 108.490 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 108.506 | 002 | Ammonia (as N) | SM 4500-NH3 G-1997 |
| 108.514 | 001 | Nitrite (as N) | SM 4500-NO2 B-2000 |
| 108.529 | 001 | Nitrate-Nitrite (as N) | SM 4500-NO3 F-2000 |
| 108.529 | 002 | Nitrite (as N) | SM 4500-NO3 F-2000 |
| 108.529 | 003 | Nitrate (as N) | SM 4500-NO3 F-2000 |
| 108.540 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-1999 |
| 108.541 | 001 | Phosphorus, Total | SM 4500-P E-1999 |
| 108.584 | 001 | Sulfide (as S) | SM 4500-S D-2000 |
| 108.592 | 001 | Biochemical Oxygen Demand | SM 5210 B -2001 |
| 108.592 | 002 | Carbonaceous BOD | SM 5210 B -2001 |
| 108.595 | 001 | Chemical Oxygen Demand | SM 5220 D-1997 |
| 108.597 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |
| 108.605 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.010 | 001 | Aluminum | EPA 200.7 |
| 109.010 | 002 | Antimony | EPA 200.7 |
| 109.010 | 003 | Arsenic | EPA 200.7 |
| 109.010 | 004 | Barium | EPA 200.7 |
| 109.010 | 005 | Beryllium | EPA 200.7 |
| 109.010 | 006 | Boron | EPA 200.7 |
| 109.010 | 007 | Cadmium | EPA 200.7 |
| 109.010 | 009 | Chromium | EPA 200.7 |
| 109.010 | 010 | Cobalt | EPA 200.7 |
| 109.010 | 011 | Copper | EPA 200.7 |
| 109.010 | 012 | Iron | EPA 200.7 |
| 109.010 | 013 | Lead | EPA 200.7 |
| 109.010 | 015 | Manganese | EPA 200.7 |
| 109.010 | 016 | Molybdenum | EPA 200.7 |
| 109.010 | 017 | Nickel | EPA 200.7 |
| 109.010 | 019 | Selenium | EPA 200.7 |
| 109.010 | 021 | Silver | EPA 200.7 |
| 109.010 | 023 | Thallium | EPA 200.7 |
| 109.010 | 024 | Tin | EPA 200.7 |
| 109.010 | 025 | Titanium | EPA 200.7 |
| 109.010 | 026 | Vanadium | EPA 200.7 |
| 109.010 | 027 | Zinc | EPA 200.7 |
| 109.020 | 001 | Aluminum | EPA 200.8 |
| 109.020 | 002 | Antimony | EPA 200.8 |
| 109.020 | 003 | Arsenic | EPA 200.8 |
| 109.020 | 004 | Barium | EPA 200.8 |
| 109.020 | 005 | Beryllium | EPA 200.8 |
| 109.020 | 006 | Cadmium | EPA 200.8 |
| 109.020 | 007 | Chromium | EPA 200.8 |
| 109.020 | 008 | Cobalt | EPA 200.8 |
| 109.020 | 009 | Copper | EPA 200.8 |
| 109.020 | 010 | Lead | EPA 200.8 |
| 109.020 | 011 | Manganese | EPA 200.8 |
| 109.020 | 012 | Molybdenum | EPA 200.8 |
| 109.020 | 013 | Nickel | EPA 200.8 |
| 109.020 | 014 | Selenium | EPA 200.8 |
| 109.020 | 015 | Silver | EPA 200.8 |
| 109.020 | 016 | Thallium | EPA 200.8 |
| 109.020 | 017 | Vanadium | EPA 200.8 |
| 109.020 | 018 | Zinc | EPA 200.8 |
| 109.020 | 021 | Iron | EPA 200.8 |
| 109.104 | 001 | Chromium (VI) | EPA 218.6 |
| 109.190 | 001 | Mercury | EPA 245.1 |

**Field of Testing:** 110 – Volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 000 | Purgeable Organic Compounds | EPA 624 |

**Field of Testing:** 111 – Semi-volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.100 | 000 | Base/Neutral & Acid Organics | EPA 625 |
| 111.101 | 000 | Organochlorine Pesticides and PCBs | EPA 625 |
| 111.170 | 000 | Organochlorine Pesticides and PCBs | EPA 608 |
| 111.210 | 000 | Carbamates | EPA 632 |

**Field of Testing:** 112 – Radionuclides in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 112.020 | 001 | Total Alpha Radium | EPA 903.0 |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter 11, Article 5, Appendix II |

**Field of Testing:** 116 – Volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.080 | 120 | Oxygenates | EPA 8260 B |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A Aqueous Only |
| 117.220 | 000 | PCBs | EPA 8082 Aqueous Only |
| 117.240 | 000 | Organophosphorus Pesticides | EPA 8141 A Aqueous Only |

**Field of Testing:** 126 – Microbiological Methods for Ambient Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 126.010 | 001 | Total Coliform (Enumeration) | SM 9221 B-2006 |
| 126.030 | 001 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 126.050 | 001 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 126.050 | 002 | E. coli (Enumeration) | SM 9223 B Colilert |
| 126.080 | 001 | Enterococci | Enterolert |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**LA Testing**

Huntington Beach, CA

5431 Industrial Drive

Huntington Beach, CA 92649

Phone: (714) 828-4999

**Certificate No.** **1406**

**Expiration Date** **1/31/2022**

***As of 2/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.020 | 001 | Turbidity | EPA 180.1 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.130 | 001 | Lead | EPA 7420 |
| 114.140 | 001 | Mercury | EPA 7470 A |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.240 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.021 | 001 | TCLP Inorganics | EPA 1311 (TCLP) |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.220 | 000 | PCBs | EPA 8082 |

**Field of Testing:** 120 – Physical Properties of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 120.070 | 001 | Corrosivity – pH Determination | EPA 9040 B |
| 120.080 | 001 | Corrosivity – pH Determination | EPA 9045 C |

**Field of Testing:** 121 – Bulk Asbestos Analysis of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 121.010 | 001 | Bulk Asbestos | EPA 600/M4-82-020 |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**North Coast Laboratories, Ltd.**

5680 West End Road

Arcata, CA 95521

Phone: (707) 822-4649

**Certificate No.** **1247**

**Expiration Date** **7/31/2021** **INTERIM**

***As of 8/1/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 101 – Microbiology of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert |

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.030 | 001 | Bromide | EPA 300.0 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.120 | 001 | Hardness (Calculation) | SM 2340 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.240 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-1999 |
| 102.262 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2000 |
| 102.263 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 C-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 103 – Toxic Chemical Elements of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |

**Field of Testing:** 104 – Volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.030 | 001 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 504.1 |
| 104.030 | 002 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 504.1 |
| 104.040 | 001 | Benzene | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethylene (trans-1,2 Dichloroethene) | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethylene (Trichloroethene) | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 059 | o-Xylene | EPA 524.2 |
| 104.040 | 063 | m+p-Xylene | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane (Chlorodibromomethane) | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane (Freon 113) | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 105 – Semi-volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.010 | 002 | Alachlor | EPA 505 |
| 105.010 | 004 | Chlordane | EPA 505 |
| 105.010 | 006 | Endrin | EPA 505 |
| 105.010 | 007 | Heptachlor | EPA 505 |
| 105.010 | 008 | Heptachlor Epoxide | EPA 505 |
| 105.010 | 009 | Hexachlorobenzene | EPA 505 |
| 105.010 | 010 | Hexachlorocyclopentadiene | EPA 505 |
| 105.010 | 011 | Lindane (HCH-gamma) | EPA 505 |
| 105.010 | 012 | Methoxychlor | EPA 505 |
| 105.010 | 014 | Toxaphene | EPA 505 |
| 105.010 | 015 | PCBs as Aroclors (screen) | EPA 505 |
| 105.020 | 001 | Di(2-ethylhexyl) Adipate | EPA 506 |
| 105.020 | 002 | Di(2-ethylhexyl) Phthalate | EPA 506 |
| 105.030 | 001 | Alachlor | EPA 507 |
| 105.030 | 002 | Atrazine | EPA 507 |
| 105.030 | 003 | Butachlor | EPA 507 |
| 105.030 | 005 | Metolachlor | EPA 507 |
| 105.030 | 006 | Metribuzin | EPA 507 |
| 105.030 | 007 | Molinate | EPA 507 |
| 105.030 | 008 | Prometryn | EPA 507 |
| 105.030 | 009 | Simazine | EPA 507 |
| 105.082 | 001 | 2,4-D | EPA 515.3 |
| 105.082 | 002 | Dinoseb | EPA 515.3 |
| 105.082 | 003 | Pentachlorophenol | EPA 515.3 |
| 105.082 | 004 | Picloram | EPA 515.3 |
| 105.082 | 005 | 2,4,5-TP (Silvex) | EPA 515.3 |
| 105.082 | 006 | Bentazon | EPA 515.3 |
| 105.082 | 007 | Dalapon | EPA 515.3 |
| 105.082 | 008 | Dicamba | EPA 515.3 |
| 105.100 | 001 | Aldicarb | EPA 531.1 |
| 105.100 | 002 | Aldicarb Sulfone | EPA 531.1 |
| 105.100 | 003 | Aldicarb Sulfoxide | EPA 531.1 |
| 105.100 | 004 | Carbaryl | EPA 531.1 |
| 105.100 | 005 | Carbofuran | EPA 531.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.100 | 006 | 3-Hydroxycarbofuran | EPA 531.1 |
| 105.100 | 007 | Methomyl | EPA 531.1 |
| 105.100 | 008 | Oxamyl | EPA 531.1 |
| 105.120 | 001 | Glyphosate | EPA 547 |
| 105.140 | 001 | Endothall | EPA 548.1 |
| 105.150 | 001 | Diquat | EPA 549.2 |
| 105.161 | 001 | Benzo(a)pyrene | EPA 550.1 |
| 105.200 | 001 | Bromoacetic Acid | EPA 552.2 |
| 105.200 | 003 | Chloroacetic Acid | EPA 552.2 |
| 105.200 | 005 | Dibromoacetic Acid | EPA 552.2 |
| 105.200 | 006 | Dichloroacetic Acid | EPA 552.2 |
| 105.200 | 007 | Trichloroacetic Acid | EPA 552.2 |

**Field of Testing:** 107 – Microbiological Methods for Non-Potable Water and Sewage Sludge

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 107.001 | 001 | Total Coliform (Enumeration) | SM 9221 B, C-2006 |
| 107.001 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 107.005 | 001 | E. coli (Enumeration) | SM 9223 B-2004 |

**Field of Testing:** 108 – Inorganic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.007 | 001 | Residue, Volatile | EPA 160.4 (1971) |
| 108.009 | 001 | Turbidity | EPA 180.1 (1993 Rev. 2.0) |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) |
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.053 | 002 | Oil & Grease Total | EPA 1664 B |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 |
| 108.065 | 001 | Hardness (Calculation) | SM 2340 B-2011 |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 |
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 |
| 108.075 | 001 | Residue, Non-filterable TSS | SM 2540 D-2011 |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 |
| 108.114 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2011 |
| 108.114 | 002 | Chlorine, Free | SM 4500-Cl G-2011 |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 |
| 108.140 | 001 | Ammonia (as N) | SM 4500-NH3 D-2011 |
| 108.140 | 002 | Kjeldahl Nitrogen, Total (as N) | SM 4500-NH3 D-2011 |
| 108.175 | 001 | Phosphate, Ortho (as P) | SM 4500-P E-2011 |
| 108.175 | 002 | Phosphorus, Total | SM 4500-P E-2011 |
| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 |
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 |
| 108.217 | 001 | Organic Carbon-Total (TOC) | SM 5310 C-2011 |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 |
| 108.325 | 001 | Chemical Oxygen Demand | Hach 8000 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 002 | Antimony | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 003 | Arsenic | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 004 | Barium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 005 | Beryllium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 007 | Cadmium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 008 | Chromium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 009 | Cobalt | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 010 | Copper | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 012 | Lead | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 013 | Manganese | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 014 | Molybdenum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 015 | Nickel | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 016 | Selenium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 017 | Silver | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 018 | Thallium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 021 | Vanadium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 022 | Zinc | EPA 200.7 (1994 Rev. 4.4) |
| 109.625 | 001 | Aluminum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) |
| 109.687 | 001 | Chromium (VI) | SM 3500-Cr C-2011 |

**Field of Testing:** 110 – Volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 005 | Benzene | EPA 624.1 |
| 110.040 | 006 | Bromodichloromethane | EPA 624.1 |
| 110.040 | 007 | Bromoform | EPA 624.1 |
| 110.040 | 008 | Bromomethane (Methyl Bromide) | EPA 624.1 |
| 110.040 | 010 | Carbon Tetrachloride | EPA 624.1 |
| 110.040 | 011 | Chlorobenzene | EPA 624.1 |
| 110.040 | 012 | Chloroethane | EPA 624.1 |
| 110.040 | 013 | 2-Chloroethylvinyl Ether | EPA 624.1 |
| 110.040 | 014 | Chloroform | EPA 624.1 |
| 110.040 | 015 | Chloromethane (Methyl Chloride) | EPA 624.1 |
| 110.040 | 016 | Dibromochloromethane (Chlorodibromomethane) | EPA 624.1 |
| 110.040 | 017 | 1,2-Dichlorobenzene | EPA 624.1 |
| 110.040 | 018 | 1,3-Dichlorobenzene | EPA 624.1 |
| 110.040 | 019 | 1,4-Dichlorobenzene | EPA 624.1 |
| 110.040 | 020 | 1,1-Dichloroethane | EPA 624.1 |
| 110.040 | 021 | 1,2-Dichloroethane | EPA 624.1 |
| 110.040 | 022 | 1,1-Dichloroethylene (1,1-Dichloroethene) | EPA 624.1 |
| 110.040 | 023 | trans-1,2-Dichloroethylene (trans-1,2 Dichloroethene) | EPA 624.1 |
| 110.040 | 024 | 1,2-Dichloropropane | EPA 624.1 |
| 110.040 | 025 | cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene) | EPA 624.1 |
| 110.040 | 026 | trans-1,3-Dichloropropylene (trans-1,3 Dichloroprope | EPA 624.1 |
| 110.040 | 029 | Ethylbenzene | EPA 624.1 |
| 110.040 | 031 | Methylene Chloride (Dichloromethane) | EPA 624.1 |
| 110.040 | 034 | 1,1,2,2-Tetrachloroethane | EPA 624.1 |
| 110.040 | 035 | Tetrachloroethylene (Tetrachloroethene) | EPA 624.1 |
| 110.040 | 037 | Toluene | EPA 624.1 |
| 110.040 | 038 | 1,1,1-Trichloroethane | EPA 624.1 |
| 110.040 | 039 | 1,1,2-Trichloroethane | EPA 624.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 040 | Trichloroethylene (Trichloroethene) | EPA 624.1 |
| 110.040 | 041 | Vinyl Chloride | EPA 624.1 |
| 110.040 | 043 | o-Xylene | EPA 624.1 |
| 110.040 | 045 | Trichlorofluoromethane | EPA 624.1 |
| 110.040 | 046 | m+p-Xylene | EPA 624.1 |

**Field of Testing:** 111 – Semi-volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.030 | 002 | Bis(2-ethylhexyl)phthalate | EPA 606 |
| 111.055 | 001 | Aldrin | EPA 608.3 |
| 111.055 | 002 | alpha-BHC | EPA 608.3 |
| 111.055 | 003 | beta-BHC | EPA 608.3 |
| 111.055 | 004 | delta-BHC | EPA 608.3 |
| 111.055 | 005 | gamma-BHC (Lindane) | EPA 608.3 |
| 111.055 | 006 | Chlordane | EPA 608.3 |
| 111.055 | 007 | 4,4'-DDD | EPA 608.3 |
| 111.055 | 008 | 4,4'-DDE | EPA 608.3 |
| 111.055 | 009 | 4,4'-DDT | EPA 608.3 |
| 111.055 | 010 | Dieldrin | EPA 608.3 |
| 111.055 | 011 | Endosulfan I | EPA 608.3 |
| 111.055 | 012 | Endosulfan II | EPA 608.3 |
| 111.055 | 013 | Endosulfan Sulfate | EPA 608.3 |
| 111.055 | 014 | Endrin | EPA 608.3 |
| 111.055 | 015 | Endrin Aldehyde | EPA 608.3 |
| 111.055 | 016 | Heptachlor | EPA 608.3 |
| 111.055 | 017 | Heptachlor Epoxide | EPA 608.3 |
| 111.055 | 019 | PCB-1016 | EPA 608.3 |
| 111.055 | 020 | PCB-1221 | EPA 608.3 |
| 111.055 | 021 | PCB-1232 | EPA 608.3 |
| 111.055 | 022 | PCB-1242 | EPA 608.3 |
| 111.055 | 023 | PCB-1248 | EPA 608.3 |
| 111.055 | 024 | PCB-1254 | EPA 608.3 |
| 111.055 | 025 | PCB-1260 | EPA 608.3 |
| 111.055 | 038 | Chlorothalonil | EPA 608.3 |
| 111.055 | 046 | Methoxychlor | EPA 608.3 |
| 111.055 | 060 | Toxaphene | EPA 608.3 |
| 111.120 | 001 | 2,4-D | EPA 615 |
| 111.120 | 002 | 2,4-DB | EPA 615 |
| 111.120 | 003 | Dicamba | EPA 615 |
| 111.120 | 004 | Dichlorprop | EPA 615 |
| 111.120 | 005 | Dinoseb | EPA 615 |
| 111.120 | 008 | 2,4,5-T | EPA 615 |
| 111.120 | 009 | 2,4,5-TP (Silvex) | EPA 615 |
| 111.140 | 001 | Ametryn | EPA 619 |
| 111.140 | 002 | Atraton | EPA 619 |
| 111.140 | 003 | Atrazine | EPA 619 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.140 | 004 | Prometon | EPA 619 |
| 111.140 | 005 | Prometryn | EPA 619 |
| 111.140 | 006 | Propazine | EPA 619 |
| 111.140 | 008 | Simazine | EPA 619 |
| 111.140 | 010 | Terbutryn | EPA 619 |
| 111.190 | 008 | Ziram (Zinc Dimethyldithiocarbamate) | EPA 630 |
| 111.210 | 002 | Barban | EPA 632 |
| 111.210 | 003 | Carbaryl | EPA 632 |
| 111.210 | 004 | Carbofuran | EPA 632 |
| 111.210 | 005 | Chloropropham | EPA 632 |
| 111.210 | 006 | Diuron | EPA 632 |
| 111.210 | 007 | Fenuron | EPA 632 |
| 111.210 | 009 | Linuron | EPA 632 |
| 111.210 | 010 | Methiocarb | EPA 632 |
| 111.210 | 011 | Methomyl | EPA 632 |
| 111.210 | 013 | Monuron | EPA 632 |
| 111.210 | 015 | Neburon | EPA 632 |
| 111.210 | 016 | Propham | EPA 632 |
| 111.210 | 017 | Propoxur | EPA 632 |
| 111.210 | 018 | Siduron | EPA 632 |
| 111.210 | 019 | Swep | EPA 632 |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.021 | 001 | TCLP Inorganics | EPA 1311 |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter 11, Article 5, Appendix II |

**Field of Testing:** 116 – Volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.080 | 120 | Oxygenates | EPA 8260 B |
| 116.100 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT GC/MS |
| 116.100 | 010 | BTEX and MTBE | LUFT GC/MS |
| 116.110 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.016 | 001 | Diesel-range Total Petroleum Hydrocarbons | LUFT |
| 117.150 | 000 | Carbonyl Compounds | EPA 8315 A |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.250 | 000 | Chlorinated Herbicides | EPA 8151 A |
| 117.280 | 000 | Carbamates | EPA 8321 A |

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**Certificate No. 1531**
**Expiration Date 5/31/2021**

**Field of Testing:** 101 - Microbiology of Drinking Water

| | | | |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.010 | 002 | Heterotrophic Bacteria | SimPlate |
| 101.020 | 004 | Total Coliform (Enumeration) | SM 9221 B,C |
| 101.020 | 005 | Fecal Coliform (Enumeration) | SM 9221 B,E |
| 101.020 | 006 | E. coli (Enumeration) | SM 9221 B,F |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |

**Field of Testing:** 102 - Inorganic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 102.020 | 001 | Turbidity | EPA 180.1 |
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 004 | Silica | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.030 | 001 | Bromide | EPA 300.0 |
| 102.030 | 002 | Chlorate | EPA 300.0 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 004 | Chlorite | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.060 | 001 | Nitrate (as N) (Calculation) | EPA 353.2 |
| 102.061 | 001 | Nitrite (as N) | EPA 353.2 |
| 102.070 | 001 | Phosphate,Ortho (as P) | EPA 365.1 |
| 102.095 | 001 | Turbidity | SM 2130 B-2001 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.120 | 001 | Hardness (Calculation) | SM 2340 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.190 | 001 | Cyanide, Total | SM 4500-CN E-1999 |

| | | | |
|---|---|---|---|
| 102.192 | 001 | Cyanide, Amenable | SM 4500-CN G-1999 |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 102.260 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2000 |
| 102.261 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 B-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 103 - Toxic Chemical Elements of Drinking Water

| | | | |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 004 | Beryllium | EPA 200.7 |
| 103.130 | 005 | Cadmium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 017 | Boron | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |

**Field of Testing:** 104 - Volatile Organic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 000 | Volatile Organic Compounds | EPA 524.2 |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |

| | | | |
|---|---|---|---|
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethene (1,1-Dichloroethylene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethene | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethene | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropene | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropene | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethene | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 057 | Xylenes, Total | EPA 524.2 |
| 104.045 | 000 | Trihalomethanes, Total | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane | EPA 524.2 |

| | | | |
|---|---|---|---|
| 104.050 | 000 | Gasoline Additives | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |
| 104.050 | 005 | Trichlorotrifluoroethane | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |

**Field of Testing:** 105 - Semi-volatile Organic Chemistry of Drinking Water

| | | | |
|---|---|---|---|
| 105.020 | 000 | Phthalate & Adipate Esters | EPA 506 |
| 105.020 | 001 | Di(2-ethylhexyl) Adipate | EPA 506 |
| 105.020 | 002 | Di(2-ethylhexyl) Phthalate | EPA 506 |
| 105.030 | 000 | N-, P- Pesticides | EPA 507 |
| 105.030 | 001 | Alachlor | EPA 507 |
| 105.030 | 002 | Atrazine | EPA 507 |
| 105.030 | 003 | Butachlor | EPA 507 |
| 105.030 | 005 | Metolachlor | EPA 507 |
| 105.030 | 006 | Metribuzin | EPA 507 |
| 105.030 | 007 | Molinate | EPA 507 |
| 105.030 | 009 | Simazine | EPA 507 |
| 105.035 | 000 | Organochlorine Pesticides and PCBs | EPA 508 |
| 105.035 | 001 | Aldrin | EPA 508 |
| 105.035 | 005 | Endrin | EPA 508 |
| 105.035 | 007 | Heptachlor | EPA 508 |
| 105.035 | 008 | Heptachlor Epoxide | EPA 508 |
| 105.035 | 009 | Hexachlorobenzene | EPA 508 |
| 105.035 | 010 | Lindane (HCH-gamma) | EPA 508 |
| 105.035 | 011 | Methoxychlor | EPA 508 |
| 105.035 | 012 | Propachlor | EPA 508 |
| 105.035 | 013 | Chlordane | EPA 508 |
| 105.035 | 014 | Toxaphene | EPA 508 |
| 105.035 | 015 | PCBs as Aroclors | EPA 508 |
| 105.035 | 016 | Aroclor 1016 | EPA 508 |
| 105.035 | 017 | Aroclor 1221 | EPA 508 |
| 105.035 | 018 | Aroclor 1232 | EPA 508 |
| 105.035 | 019 | Aroclor 1242 | EPA 508 |
| 105.035 | 020 | Aroclor 1248 | EPA 508 |
| 105.035 | 021 | Aroclor 1254 | EPA 508 |
| 105.035 | 022 | Aroclor 1260 | EPA 508 |
| 105.070 | 000 | Chlorinated Acids | EPA 515.1 |
| 105.070 | 001 | Bentazon | EPA 515.1 |
| 105.070 | 002 | 2,4-D | EPA 515.1 |
| 105.070 | 003 | Dalapon | EPA 515.1 |
| 105.070 | 004 | Dicamba | EPA 515.1 |

| | | | |
|---|---|---|---|
| 105.070 | 005 | Dinoseb | EPA 515.1 |
| 105.070 | 006 | Pentachlorophenol | EPA 515.1 |
| 105.070 | 007 | Picloram | EPA 515.1 |
| 105.070 | 008 | 2,4,5-TP (Silvex) | EPA 515.1 |
| 105.160 | 000 | Polynuclear Aromatic Hydrocarbons | EPA 550 |
| 105.160 | 001 | Benzo(a)pyrene | EPA 550 |
| 105.200 | 001 | Bromoacetic Acid | EPA 552.2 |
| 105.200 | 003 | Chloroacetic Acid | EPA 552.2 |
| 105.200 | 005 | Dibromoacetic Acid | EPA 552.2 |
| 105.200 | 006 | Dichloroacetic Acid | EPA 552.2 |
| 105.200 | 007 | Trichloroacetic Acid | EPA 552.2 |
| 105.200 | 008 | Haloacetic Acids (HAA5) | EPA 552.2 |

**Field of Testing:** 107 - Microbiology of Wastewater

| | | | |
|---|---|---|---|
| 107.020 | 002 | Total Coliform | SM 9221 B-2006 |
| 107.030 | 002 | Total Coliform with Chlorine Present | SM 9221 B-2006 |
| 107.040 | 002 | Fecal Coliform (Enumeration) | SM 9221 C,E-2006 |
| 107.050 | 002 | Fecal Coliform with Chlorine Present | SM 9221 C,E-2006 |
| 107.242 | 001 | Enterococci | Enterolert |
| 107.245 | 002 | E. coli (Enumeration) | SM 9223 B Colilert |
| 107.247 | 001 | E. coli (Enumeration) | SM 9221 B,F-2006 |

**Field of Testing:** 108 - Inorganic Chemistry of Wastewater

| | | | |
|---|---|---|---|
| 108.110 | 001 | Turbidity | EPA 180.1 |
| 108.112 | 001 | Boron | EPA 200.7 |
| 108.112 | 002 | Calcium | EPA 200.7 |
| 108.112 | 003 | Hardness (Calculation) | EPA 200.7 |
| 108.112 | 004 | Magnesium | EPA 200.7 |
| 108.112 | 005 | Potassium | EPA 200.7 |
| 108.112 | 006 | Silica, Dissolved | EPA 200.7 |
| 108.112 | 007 | Sodium | EPA 200.7 |
| 108.113 | 001 | Boron | EPA 200.8 |
| 108.120 | 001 | Bromide | EPA 300.0 |
| 108.120 | 002 | Chloride | EPA 300.0 |
| 108.120 | 003 | Fluoride | EPA 300.0 |
| 108.120 | 008 | Sulfate (as SO4) | EPA 300.0 |
| 108.120 | 012 | Nitrate (as N) | EPA 300.0 |
| 108.120 | 013 | Nitrate-Nitrite (as N) | EPA 300.0 |
| 108.120 | 014 | Nitrite (as N) | EPA 300.0 |
| 108.209 | 001 | Ammonia (as N) | EPA 350.1 |
| 108.211 | 002 | Kjeldahl Nitrogen,Total (as N) | EPA 351.2 |
| 108.232 | 003 | Nitrate-Nitrite (as N) | EPA 353.2 |
| 108.232 | 004 | Nitrite (as N) | EPA 353.2 |
| 108.260 | 001 | Phosphate,Ortho (as P) | EPA 365.1 |

| | | | |
|---|---|---|---|
| 108.261 | 001 | Phosphorus,Total | EPA 365.1 |
| 108.360 | 001 | Phenols, Total | EPA 420.1 |
| 108.381 | 001 | Oil & Grease Total | EPA 1664 A |
| 108.390 | 001 | Turbidity | SM 2130 B-2001 |
| 108.410 | 001 | Alkalinity | SM 2320 B-1997 |
| 108.420 | 001 | Hardness (Calculation) | SM 2340 B-1997 |
| 108.430 | 001 | Specific Conductance | SM 2510 B-1997 |
| 108.439 | 001 | Residue, Volatile | SM 2540 E-1997 |
| 108.440 | 001 | Residue, Total | SM 2540 B-1997 |
| 108.441 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 108.442 | 001 | Residue, Non-filterable TSS | SM 2540 D-1997 |
| 108.443 | 001 | Residue, Settleable | SM 2540 F-1997 |
| 108.444 | 001 | Temperature | SM 2550 B-2010 |
| 108.465 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 108.465 | 002 | Chlorine, Free | SM 4500-Cl G-2000 |
| 108.472 | 001 | Cyanide, Total | SM 4500-CN E-1999 |
| 108.473 | 001 | Cyanide, Amenable | SM 4500-CN G-1999 |
| 108.490 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 108.536 | 001 | Oxygen, Dissolved | SM 4500-O G-2001 |
| 108.584 | 001 | Sulfide (as S) | SM 4500-S D-2000 |
| 108.592 | 001 | Biochemical Oxygen Demand | SM 5210 B -2001 |
| 108.592 | 002 | Carbonaceous BOD | SM 5210 B -2001 |
| 108.595 | 001 | Chemical Oxygen Demand | SM 5220 D-1997 |
| 108.596 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2000 |
| 108.605 | 001 | Surfactants | SM 5540 C-2000 |

**Field of Testing:** 109 - Toxic Chemical Elements of Wastewater

| | | | |
|---|---|---|---|
| 109.010 | 001 | Aluminum | EPA 200.7 |
| 109.010 | 002 | Antimony | EPA 200.7 |
| 109.010 | 003 | Arsenic | EPA 200.7 |
| 109.010 | 004 | Barium | EPA 200.7 |
| 109.010 | 005 | Beryllium | EPA 200.7 |
| 109.010 | 006 | Boron | EPA 200.7 |
| 109.010 | 007 | Cadmium | EPA 200.7 |
| 109.010 | 009 | Chromium | EPA 200.7 |
| 109.010 | 010 | Cobalt | EPA 200.7 |
| 109.010 | 011 | Copper | EPA 200.7 |
| 109.010 | 012 | Iron | EPA 200.7 |
| 109.010 | 013 | Lead | EPA 200.7 |
| 109.010 | 015 | Manganese | EPA 200.7 |
| 109.010 | 016 | Molybdenum | EPA 200.7 |
| 109.010 | 017 | Nickel | EPA 200.7 |
| 109.010 | 019 | Selenium | EPA 200.7 |

| | | | |
|---|---|---|---|
| 109.010 | 021 | Silver | EPA 200.7 |
| 109.010 | 023 | Thallium | EPA 200.7 |
| 109.010 | 024 | Tin | EPA 200.7 |
| 109.010 | 025 | Titanium | EPA 200.7 |
| 109.010 | 026 | Vanadium | EPA 200.7 |
| 109.010 | 027 | Zinc | EPA 200.7 |
| 109.020 | 001 | Aluminum | EPA 200.8 |
| 109.020 | 002 | Antimony | EPA 200.8 |
| 109.020 | 003 | Arsenic | EPA 200.8 |
| 109.020 | 004 | Barium | EPA 200.8 |
| 109.020 | 005 | Beryllium | EPA 200.8 |
| 109.020 | 006 | Cadmium | EPA 200.8 |
| 109.020 | 007 | Chromium | EPA 200.8 |
| 109.020 | 008 | Cobalt | EPA 200.8 |
| 109.020 | 009 | Copper | EPA 200.8 |
| 109.020 | 010 | Lead | EPA 200.8 |
| 109.020 | 011 | Manganese | EPA 200.8 |
| 109.020 | 012 | Molybdenum | EPA 200.8 |
| 109.020 | 013 | Nickel | EPA 200.8 |
| 109.020 | 014 | Selenium | EPA 200.8 |
| 109.020 | 015 | Silver | EPA 200.8 |
| 109.020 | 016 | Thallium | EPA 200.8 |
| 109.020 | 017 | Vanadium | EPA 200.8 |
| 109.020 | 018 | Zinc | EPA 200.8 |
| 109.020 | 021 | Iron | EPA 200.8 |
| 109.190 | 001 | Mercury | EPA 245.1 |
| 109.445 | 002 | Chromium (VI) | SM 3500-Cr B-2009 |

**Field of Testing:** 110 - Volatile Organic Chemistry of Wastewater

| | | | |
|---|---|---|---|
| 110.040 | 000 | Purgeable Organic Compounds | EPA 624 |

**Field of Testing:** 111 - Semi-volatile Organic Chemistry of Wastewater

| | | | |
|---|---|---|---|
| 111.010 | 000 | Phenols | EPA 604 |
| 111.060 | 000 | Polynuclear Aromatics | EPA 610 |
| 111.100 | 000 | Base/Neutral & Acid Organics | EPA 625 |
| 111.170 | 000 | Organochlorine Pesticides and PCBs | EPA 608 |
| 111.210 | 000 | Carbamates | EPA 632 |

**Field of Testing:** 114 - Inorganic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |

| | | | |
|---|---|---|---|
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.103 | 001 | Chromium (VI) | EPA 7196 A |
| 114.140 | 001 | Mercury | EPA 7470 A |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 115 - Extraction Test of Hazardous Waste

| | | | |
|---|---|---|---|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 (TCLP) |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 (TCLP) |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |

**Field of Testing:** 116 - Volatile Organic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 116.030 | 001 | Gasoline-range Organics | EPA 8015 B |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.080 | 120 | Oxygenates | EPA 8260 B |

**Field of Testing:** 117 - Semi-volatile Organic Chemistry of Hazardous Waste

| | | | |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.140 | 000 | Polynuclear Aromatic Hydrocarbons | EPA 8310 |

| | | | |
|---|---|---|---|
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.220 | 000 | PCBs | EPA 8082 |
| 117.240 | 000 | Organophosphorus Pesticides | EPA 8141 A |
| 117.250 | 000 | Chlorinated Herbicides | EPA 8151 A |

**Field of Testing:** 120 - Physical Properties of Hazardous Waste

| | | | |
|---|---|---|---|
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 126 - Microbiology of Recreational Water

| | | | |
|---|---|---|---|
| 126.010 | 001 | Total Coliform (Enumeration) | SM 9221 B-2006 |
| 126.030 | 001 | Fecal Coliform (Enumeration) | SM 9221 C,E-2006 |
| 126.050 | 001 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 126.050 | 002 | E. coli (Enumeration) | SM 9223 B Colilert |
| 126.080 | 001 | Enterococci | Enterolert |

**CALIFORNIA STATE**

**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM**

**Accredited Fields of Testing**

**Weck Laboratories, Inc.**

14859 East Clark Avenue

City of Industry, CA 91745

Phone: (626) 336-2139

**Certificate No.** **1132**

**Expiration Date** **3/31/2022**

***As of 4/7/2020, this list supersedes all previous lists for this certificate number.**

**Customers: Please verify the current accreditation standing with the State.**

**Field of Testing:** 101 – Microbiology of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 101.010 | 001 | Heterotrophic Bacteria | SM 9215 B |
| 101.020 | 004 | Total Coliform (Enumeration) | SM 9221 B, C |
| 101.020 | 005 | Fecal Coliform (Enumeration) | SM 9221 B, E |
| 101.020 | 006 | E. coli (Enumeration) | SM 9221 B, F |
| 101.050 | 001 | Total Coliform P/A | SM 9223 B Colilert |
| 101.050 | 002 | E. coli P/A | SM 9223 B Colilert |
| 101.050 | 003 | Total Coliform (Enumeration) | SM 9223 B Colilert |
| 101.050 | 004 | E. coli (Enumeration) | SM 9223 B Colilert |
| 101.050 | 005 | Total Coliform P/A | SM 9223 B Colilert 18 |
| 101.050 | 006 | E. coli P/A | SM 9223 B Colilert 18 |
| 101.050 | 007 | Total Coliform (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 008 | E. coli (Enumeration) | SM 9223 B Colilert 18 |
| 101.050 | 009 | Total Coliform P/A | SM 9223 B Colisure |
| 101.050 | 010 | E. coli P/A | SM 9223 B Colisure |
| 101.140 | 001 | Enterococci | SM 9230 B |
| 101.170 | 001 | Enterococci | Enterolert |

**Field of Testing:** 102 – Inorganic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.020 | 001 | Turbidity | EPA 180.1 |
| 102.026 | 001 | Calcium | EPA 200.7 |
| 102.026 | 002 | Magnesium | EPA 200.7 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 102.026 | 003 | Potassium | EPA 200.7 |
| 102.026 | 004 | Silica | EPA 200.7 |
| 102.026 | 005 | Sodium | EPA 200.7 |
| 102.026 | 006 | Hardness (Calculation) | EPA 200.7 |
| 102.030 | 001 | Bromide | EPA 300.0 |
| 102.030 | 003 | Chloride | EPA 300.0 |
| 102.030 | 005 | Fluoride | EPA 300.0 |
| 102.030 | 006 | Nitrate (as N) | EPA 300.0 |
| 102.030 | 007 | Nitrite (as N) | EPA 300.0 |
| 102.030 | 009 | Sulfate (as SO4) | EPA 300.0 |
| 102.040 | 001 | Bromide | EPA 300.1 |
| 102.040 | 002 | Chlorite | EPA 300.1 |
| 102.040 | 003 | Chlorate | EPA 300.1 |
| 102.040 | 004 | Bromate | EPA 300.1 |
| 102.045 | 001 | Perchlorate | EPA 314.0 |
| 102.047 | 001 | Perchlorate | EPA 331.0 |
| 102.048 | 001 | Perchlorate | EPA 332.0 |
| 102.050 | 001 | Cyanide, Total | EPA 335.4 |
| 102.060 | 001 | Nitrate (as N) (Calculation) | EPA 353.2 |
| 102.061 | 001 | Nitrite (as N) | EPA 353.2 |
| 102.070 | 001 | Phosphate, Ortho (as P) | EPA 365.1 |
| 102.086 | 001 | Dissolved Organic Carbon (DOC) | EPA 415.3 Revision 1.2 |
| 102.086 | 002 | Specific UV Absorbance SUVA | EPA 415.3 Revision 1.2 |
| 102.086 | 003 | Organic Carbon-Total (TOC) | EPA 415.3 Revision 1.2 |
| 102.086 | 004 | UV254 | EPA 415.3 Revision 1.2 |
| 102.090 | 001 | Bromate | EPA 557 |
| 102.100 | 001 | Alkalinity | SM 2320 B-1997 |
| 102.130 | 001 | Specific Conductance | SM 2510 B-1997 |
| 102.140 | 001 | Residue, Filterable TDS | SM 2540 C-1997 |
| 102.175 | 001 | Chlorine, Free | SM 4500-Cl G-2000 |
| 102.175 | 002 | Chlorine, Total Residual | SM 4500-Cl G-2000 |
| 102.180 | 001 | Chlorine Dioxide | SM 4500-ClO2 D-2000 |
| 102.203 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2000 |
| 102.260 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2000 |
| 102.261 | 001 | Dissolved Organic Carbon (DOC) | SM 5310 B-2000 |
| 102.270 | 001 | Surfactants | SM 5540 C-2000 |
| 102.280 | 001 | UV254 | SM 5910 B-2011 |
| 102.570 | 001 | Cyanide, Free | OIA-1677, DW |

**Field of Testing:** 103 – Toxic Chemical Elements of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 001 | Aluminum | EPA 200.7 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 103.130 | 003 | Barium | EPA 200.7 |
| 103.130 | 007 | Chromium | EPA 200.7 |
| 103.130 | 008 | Copper | EPA 200.7 |
| 103.130 | 009 | Iron | EPA 200.7 |
| 103.130 | 011 | Manganese | EPA 200.7 |
| 103.130 | 012 | Nickel | EPA 200.7 |
| 103.130 | 015 | Silver | EPA 200.7 |
| 103.130 | 017 | Zinc | EPA 200.7 |
| 103.130 | 018 | Boron | EPA 200.7 |
| 103.140 | 001 | Aluminum | EPA 200.8 |
| 103.140 | 002 | Antimony | EPA 200.8 |
| 103.140 | 003 | Arsenic | EPA 200.8 |
| 103.140 | 004 | Barium | EPA 200.8 |
| 103.140 | 005 | Beryllium | EPA 200.8 |
| 103.140 | 006 | Cadmium | EPA 200.8 |
| 103.140 | 007 | Chromium | EPA 200.8 |
| 103.140 | 008 | Copper | EPA 200.8 |
| 103.140 | 009 | Lead | EPA 200.8 |
| 103.140 | 010 | Manganese | EPA 200.8 |
| 103.140 | 011 | Mercury | EPA 200.8 |
| 103.140 | 012 | Nickel | EPA 200.8 |
| 103.140 | 013 | Selenium | EPA 200.8 |
| 103.140 | 014 | Silver | EPA 200.8 |
| 103.140 | 015 | Thallium | EPA 200.8 |
| 103.140 | 016 | Zinc | EPA 200.8 |
| 103.140 | 017 | Boron | EPA 200.8 |
| 103.140 | 018 | Vanadium | EPA 200.8 |
| 103.140 | 019 | Strontium | EPA 200.8 |
| 103.160 | 001 | Mercury | EPA 245.1 |
| 103.310 | 001 | Chromium (VI) | EPA 218.6 |
| 103.311 | 001 | Chromium (VI) | EPA 218.7 |

**Field of Testing:** 104 – Volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.030 | 001 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 504.1 |
| 104.030 | 002 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 504.1 |
| 104.035 | 001 | 1,2,3-Trichloropropane (TCP) | SRL 524M-TCP |
| 104.040 | 000 | Volatile Organic Compounds | EPA 524.2 |
| 104.040 | 001 | Benzene | EPA 524.2 |
| 104.040 | 007 | n-Butylbenzene | EPA 524.2 |
| 104.040 | 008 | sec-Butylbenzene | EPA 524.2 |
| 104.040 | 009 | tert-Butylbenzene | EPA 524.2 |
| 104.040 | 010 | Carbon Tetrachloride | EPA 524.2 |
| 104.040 | 011 | Chlorobenzene | EPA 524.2 |
| 104.040 | 015 | 2-Chlorotoluene | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.040 | 016 | 4-Chlorotoluene | EPA 524.2 |
| 104.040 | 019 | 1,3-Dichlorobenzene | EPA 524.2 |
| 104.040 | 020 | 1,2-Dichlorobenzene | EPA 524.2 |
| 104.040 | 021 | 1,4-Dichlorobenzene | EPA 524.2 |
| 104.040 | 022 | Dichlorodifluoromethane | EPA 524.2 |
| 104.040 | 023 | 1,1-Dichloroethane | EPA 524.2 |
| 104.040 | 024 | 1,2-Dichloroethane | EPA 524.2 |
| 104.040 | 025 | 1,1-Dichloroethene (1,1-Dichloroethylene) | EPA 524.2 |
| 104.040 | 026 | cis-1,2-Dichloroethene | EPA 524.2 |
| 104.040 | 027 | trans-1,2-Dichloroethene | EPA 524.2 |
| 104.040 | 028 | Dichloromethane (Methylene Chloride) | EPA 524.2 |
| 104.040 | 029 | 1,2-Dichloropropane | EPA 524.2 |
| 104.040 | 033 | cis-1,3-Dichloropropene | EPA 524.2 |
| 104.040 | 034 | trans-1,3-Dichloropropene | EPA 524.2 |
| 104.040 | 035 | Ethylbenzene | EPA 524.2 |
| 104.040 | 037 | Isopropylbenzene | EPA 524.2 |
| 104.040 | 039 | Naphthalene | EPA 524.2 |
| 104.040 | 041 | N-propylbenzene | EPA 524.2 |
| 104.040 | 042 | Styrene | EPA 524.2 |
| 104.040 | 043 | 1,1,1,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 044 | 1,1,2,2-Tetrachloroethane | EPA 524.2 |
| 104.040 | 045 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.2 |
| 104.040 | 046 | Toluene | EPA 524.2 |
| 104.040 | 047 | 1,2,3-Trichlorobenzene | EPA 524.2 |
| 104.040 | 048 | 1,2,4-Trichlorobenzene | EPA 524.2 |
| 104.040 | 049 | 1,1,1-Trichloroethane | EPA 524.2 |
| 104.040 | 050 | 1,1,2-Trichloroethane | EPA 524.2 |
| 104.040 | 051 | Trichloroethene | EPA 524.2 |
| 104.040 | 052 | Trichlorofluoromethane | EPA 524.2 |
| 104.040 | 054 | 1,2,4-Trimethylbenzene | EPA 524.2 |
| 104.040 | 055 | 1,3,5-Trimethylbenzene | EPA 524.2 |
| 104.040 | 056 | Vinyl Chloride | EPA 524.2 |
| 104.040 | 057 | Xylenes, Total | EPA 524.2 |
| 104.040 | 061 | Carbon Disulfide | EPA 524.2 |
| 104.040 | 062 | Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | EPA 524.2 |
| 104.045 | 000 | Trihalomethanes, Total | EPA 524.2 |
| 104.045 | 001 | Bromodichloromethane | EPA 524.2 |
| 104.045 | 002 | Bromoform | EPA 524.2 |
| 104.045 | 003 | Chloroform | EPA 524.2 |
| 104.045 | 004 | Dibromochloromethane | EPA 524.2 |
| 104.050 | 000 | Gasoline Additives | EPA 524.2 |
| 104.050 | 002 | Methyl tert-butyl Ether (MTBE) | EPA 524.2 |
| 104.050 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.2 |
| 104.050 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.2 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 104.050 | 005 | Trichlorotrifluoroethane | EPA 524.2 |
| 104.050 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.2 |
| 104.055 | 022 | 1,2-Dibromo-3-chloropropane (DBCP) | EPA 524.3 |
| 104.055 | 023 | 1,2-Dibromoethane (EDB, Ethylene Dibromide) | EPA 524.3 |
| 104.058 | 000 | Volatile Organic Compounds | EPA 524.4 |
| 104.058 | 001 | Benzene | EPA 524.4 |
| 104.058 | 002 | Carbon Tetrachloride | EPA 524.4 |
| 104.058 | 003 | Chlorobenzene | EPA 524.4 |
| 104.058 | 004 | 1,2-Dichlorobenzene | EPA 524.4 |
| 104.058 | 005 | 1,4-Dichlorobenzene | EPA 524.4 |
| 104.058 | 006 | 1,2-Dichloroethane | EPA 524.4 |
| 104.058 | 007 | cis-1,2-Dichloroethene | EPA 524.4 |
| 104.058 | 008 | trans-1,2-Dichloroethene | EPA 524.4 |
| 104.058 | 009 | Dichloromethane (Methylene Chloride) | EPA 524.4 |
| 104.058 | 010 | 1,2-Dichloropropane | EPA 524.4 |
| 104.058 | 011 | Ethylbenzene | EPA 524.4 |
| 104.058 | 012 | Styrene | EPA 524.4 |
| 104.058 | 013 | Tetrachloroethylene (Tetrachloroethene) | EPA 524.4 |
| 104.058 | 014 | 1,1,1-Trichloroethane | EPA 524.4 |
| 104.058 | 015 | Trichloroethene | EPA 524.4 |
| 104.058 | 016 | Toluene | EPA 524.4 |
| 104.058 | 017 | 1,2,4-Trichlorobenzene | EPA 524.4 |
| 104.058 | 018 | 1,1-Dichloroethene (1,1-Dichloroethylene) | EPA 524.4 |
| 104.058 | 019 | 1,1,2-Trichloroethane | EPA 524.4 |
| 104.058 | 020 | Vinyl Chloride | EPA 524.4 |
| 104.058 | 021 | Xylenes, Total | EPA 524.4 |
| 104.059 | 000 | Trihalomethanes, Total | EPA 524.4 |
| 104.059 | 001 | Bromodichloromethane | EPA 524.4 |
| 104.059 | 002 | Bromoform | EPA 524.4 |
| 104.059 | 003 | Chloroform | EPA 524.4 |
| 104.059 | 004 | Dibromochloromethane | EPA 524.4 |
| 104.061 | 000 | Gasoline Additives | EPA 524.4 |
| 104.061 | 001 | Di-isopropyl Ether (DIPE) | EPA 524.4 |
| 104.061 | 003 | tert-Amyl Methyl Ether (TAME) | EPA 524.4 |
| 104.061 | 004 | Ethyl tert-butyl Ether (ETBE) | EPA 524.4 |
| 104.061 | 005 | Trichlorofluoromethane (Freon 11) | EPA 524.4 |
| 104.061 | 006 | tert-Butyl Alcohol (TBA) | EPA 524.4 |
| 104.061 | 007 | Trichlorotrifluoroethane (Freon 113) | EPA 524.4 |

**Field of Testing:** 105 – Semi-volatile Organic Chemistry of Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.035 | 000 | Organochlorine Pesticides and PCBs | EPA 508 |
| 105.035 | 001 | Aldrin | EPA 508 |
| 105.035 | 005 | Endrin | EPA 508 |
| 105.035 | 007 | Heptachlor | EPA 508 |
| 105.035 | 008 | Heptachlor Epoxide | EPA 508 |
| 105.035 | 009 | Hexachlorobenzene | EPA 508 |
| 105.035 | 010 | Lindane (HCH-gamma) | EPA 508 |
| 105.035 | 011 | Methoxychlor | EPA 508 |
| 105.035 | 012 | Propachlor | EPA 508 |
| 105.035 | 013 | Chlordane | EPA 508 |
| 105.035 | 014 | Toxaphene | EPA 508 |
| 105.035 | 015 | PCBs as Aroclors | EPA 508 |
| 105.035 | 016 | Aroclor 1016 | EPA 508 |
| 105.035 | 017 | Aroclor 1221 | EPA 508 |
| 105.035 | 018 | Aroclor 1232 | EPA 508 |
| 105.035 | 019 | Aroclor 1242 | EPA 508 |
| 105.035 | 020 | Aroclor 1248 | EPA 508 |
| 105.035 | 021 | Aroclor 1254 | EPA 508 |
| 105.035 | 022 | Aroclor 1260 | EPA 508 |
| 105.050 | 000 | Organochlorine Pesticides | EPA 508.1 |
| 105.050 | 005 | Chlordane (total) | EPA 508.1 |
| 105.050 | 010 | Endrin | EPA 508.1 |
| 105.050 | 011 | Heptachlor | EPA 508.1 |
| 105.050 | 012 | Heptachlor Epoxide | EPA 508.1 |
| 105.050 | 013 | Hexachlorobenzene | EPA 508.1 |
| 105.050 | 014 | Hexachlorocyclopentadiene | EPA 508.1 |
| 105.050 | 015 | Lindane (HCH-gamma) | EPA 508.1 |
| 105.050 | 016 | Methoxychlor | EPA 508.1 |
| 105.050 | 019 | Propachlor | EPA 508.1 |
| 105.050 | 021 | PCB-1016 | EPA 508.1 |
| 105.050 | 022 | PCB-1221 | EPA 508.1 |
| 105.050 | 023 | PCB-1232 | EPA 508.1 |
| 105.050 | 024 | PCB-1242 | EPA 508.1 |
| 105.050 | 025 | PCB-1248 | EPA 508.1 |
| 105.050 | 026 | PCB-1254 | EPA 508.1 |
| 105.050 | 027 | PCB-1260 | EPA 508.1 |
| 105.050 | 028 | PCBs as Aroclors | EPA 508.1 |
| 105.050 | 029 | Toxaphene | EPA 508.1 |
| 105.083 | 000 | Chlorinated Acids | EPA 515.4 |
| 105.083 | 001 | 2,4-D | EPA 515.4 |
| 105.083 | 002 | Dinoseb | EPA 515.4 |
| 105.083 | 003 | Pentachlorophenol | EPA 515.4 |
| 105.083 | 004 | Picloram | EPA 515.4 |
| 105.083 | 005 | 2,4,5-TP (Silvex) | EPA 515.4 |
| 105.083 | 006 | Dalapon | EPA 515.4 |
| 105.083 | 007 | Bentazon | EPA 515.4 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 105.083 | 008 | Dicamba | EPA 515.4 |
| 105.090 | 000 | Semi-volatile Organic Compounds | EPA 525.2 |
| 105.090 | 001 | Alachlor | EPA 525.2 |
| 105.090 | 003 | Atrazine | EPA 525.2 |
| 105.090 | 004 | Benzo(a)pyrene | EPA 525.2 |
| 105.090 | 005 | Butachlor | EPA 525.2 |
| 105.090 | 007 | Dieldrin | EPA 525.2 |
| 105.090 | 008 | Di(2-ethylhexyl) Adipate | EPA 525.2 |
| 105.090 | 009 | Di(2-ethylhexyl) Phthalate | EPA 525.2 |
| 105.090 | 013 | Endrin | EPA 525.2 |
| 105.090 | 014 | Heptachlor | EPA 525.2 |
| 105.090 | 015 | Heptachlor Epoxide | EPA 525.2 |
| 105.090 | 016 | Hexachlorobenzene | EPA 525.2 |
| 105.090 | 017 | Hexachlorocyclopentadiene | EPA 525.2 |
| 105.090 | 018 | Lindane (HCH-gamma) | EPA 525.2 |
| 105.090 | 019 | Methoxychlor | EPA 525.2 |
| 105.090 | 022 | Molinate | EPA 525.2 |
| 105.090 | 023 | Pentachlorophenol | EPA 525.2 |
| 105.090 | 025 | Simazine | EPA 525.2 |
| 105.090 | 028 | Thiobencarb | EPA 525.2 |
| 105.101 | 000 | Carbamates | EPA 531.2 |
| 105.101 | 001 | Carbofuran | EPA 531.2 |
| 105.101 | 002 | Oxamyl | EPA 531.2 |
| 105.101 | 003 | Aldicarb | EPA 531.2 |
| 105.101 | 004 | Aldicarb Sulfone | EPA 531.2 |
| 105.101 | 005 | Aldicarb Sulfoxide | EPA 531.2 |
| 105.101 | 006 | Carbaryl | EPA 531.2 |
| 105.101 | 007 | 3-Hydroxycarbofuran | EPA 531.2 |
| 105.101 | 008 | Methomyl | EPA 531.2 |
| 105.106 | 000 | Per- and Polyfluorinated Alkyl Substances (PFAS) | EPA 537.1 |
| 105.120 | 001 | Glyphosate | EPA 547 |
| 105.140 | 001 | Endothall | EPA 548.1 |
| 105.150 | 001 | Diquat | EPA 549.2 |
| 105.170 | 031 | Disinfection Byproducts | EPA 551.1 |
| 105.201 | 001 | Haloacetic Acids (HAA5) | EPA 552.3 |
| 105.210 | 002 | 2,4-D | EPA 555 |
| 105.210 | 004 | Dinoseb | EPA 555 |
| 105.210 | 005 | Pentachlorophenol | EPA 555 |
| 105.210 | 006 | Picloram | EPA 555 |
| 105.210 | 007 | 2,4,5-TP (Silvex) | EPA 555 |
| 105.210 | 008 | Bentazon | EPA 555 |
| 105.215 | 001 | Haloacetic Acids (HAA5) | EPA 557 |
| 105.215 | 002 | Dalapon | EPA 557 |
| 105.230 | 002 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Screening Only | EPA 1613 B |

**Field of Testing:** 106 – Radionuclides in Drinking Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 106.010 | 001 | Gross Alpha | EPA 900.0 |
| 106.010 | 002 | Gross Beta | EPA 900.0 |
| 106.092 | 001 | Uranium | EPA 200.8 |
| 106.270 | 001 | Gross Alpha | SM 7110 C |
| 106.610 | 001 | Radon-222 | SM 7500-Rn |

**Field of Testing:** 107 – Microbiological Methods for Non-Potable Water and Sewage Sludge

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 107.001 | 001 | Total Coliform (Enumeration) | SM 9221 B, C-2006 |
| 107.001 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 107.001 | 003 | E. coli (Enumeration) | SM 9221 C, F-2006 |
| 107.007 | 002 | Fecal Streptococci | SM 9230 B-2007 |
| 107.013 | 001 | E. coli (Enumeration) | Colilert |
| 107.015 | 001 | E. coli (Enumeration) | Colilert 18 |
| 107.015 | 002 | Fecal Coliform (Enumeration) | Colilert 18 |
| 107.017 | 001 | Enterococci | Enterolert |

**Field of Testing:** 108 – Inorganic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.007 | 001 | Residue, Volatile | EPA 160.4 (1971) |
| 108.009 | 001 | Turbidity | EPA 180.1 (1993 Rev. 2.0) |
| 108.013 | 001 | Calcium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 002 | Magnesium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 003 | Phosphorus, Total | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 004 | Potassium | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 005 | Silica, Dissolved | EPA 200.7 (1994 Rev. 4.4) |
| 108.013 | 006 | Sodium | EPA 200.7 (1994 Rev. 4.4) |
| 108.015 | 001 | Calcium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 002 | Magnesium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 003 | Potassium | EPA 200.8 (1994 Rev. 5.4) |
| 108.015 | 005 | Sodium | EPA 200.8 (1994 Rev. 5.4) |
| 108.017 | 001 | Bromide | EPA 300.0 (1993 Rev. 2.1) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.017 | 002 | Chloride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 003 | Fluoride | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 004 | Nitrate (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 005 | Nitrate-Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 006 | Nitrite (as N) | EPA 300.0 (1993 Rev. 2.1) |
| 108.017 | 008 | Sulfate (as SO4) | EPA 300.0 (1993 Rev. 2.1) |
| 108.019 | 001 | Bromide | EPA 300.1 (1997 Rev.1.0) |
| 108.023 | 001 | Cyanide, Total | EPA 335.4 (1993 Rev. 1.0) |
| 108.025 | 001 | Ammonia (as N) | EPA 350.1 (1993 Rev. 2.0) |
| 108.029 | 001 | Kjeldahl Nitrogen, Total (as N) | EPA 351.2 (1993 Rev. 2.0) |
| 108.033 | 001 | Nitrate-Nitrite (as N) | EPA 353.2 (1993 Rev. 2.0) |
| 108.033 | 002 | Nitrite (as N) | EPA 353.2 (1993 Rev. 2.0) |
| 108.035 | 001 | Phosphate, Ortho (as P) | EPA 365.1 (1993 Rev. 2.0) |
| 108.035 | 002 | Phosphorus, Total | EPA 365.1 (1993 Rev. 2.0) |
| 108.037 | 001 | Phosphate, Ortho (as P) | EPA 365.3 (1978) |
| 108.037 | 002 | Phosphorus, Total | EPA 365.3 (1978) |
| 108.045 | 001 | Chemical Oxygen Demand | EPA 410.4 (1993 Rev. 2.0) |
| 108.049 | 001 | Phenols, Total | EPA 420.4 (1993 Rev. 2.0) |
| 108.053 | 002 | Oil & Grease Total | EPA 1664 B |
| 108.055 | 001 | Color | SM 2120 B-2011 |
| 108.063 | 001 | Alkalinity | SM 2320 B-2011 |
| 108.069 | 001 | Specific Conductance | SM 2510 B-2011 |
| 108.071 | 001 | Residue, Total | SM 2540 B-2011 |
| 108.073 | 001 | Residue, Filterable TDS | SM 2540 C-2011 |
| 108.075 | 001 | Residue, Non-filterable TSS | SM 2540 D-2011 |
| 108.077 | 001 | Residue, Volatile | SM 2540 E-2011 |
| 108.079 | 001 | Residue, Settleable | SM 2540 F-2011 |
| 108.080 | 001 | Temperature | SM 2550 B-2010 |
| 108.114 | 001 | Chlorine, Total Residual | SM 4500-Cl G-2011 |
| 108.114 | 002 | Chlorine, Free | SM 4500-Cl G-2011 |
| 108.129 | 001 | Cyanide, Available | SM 4500-CN G-2011 |
| 108.137 | 001 | Hydrogen Ion (pH) | SM 4500-H+ B-2011 |
| 108.173 | 001 | Oxygen, Dissolved | SM 4500-O G-2011 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 108.189 | 001 | Sulfite (as SO3) | SM 4500-SO3 B-2011 |
| 108.201 | 001 | Sulfide (as S) | SM 4500-S D-2011 |
| 108.207 | 001 | Biochemical Oxygen Demand | SM 5210 B-2011 |
| 108.207 | 002 | Carbonaceous BOD | SM 5210 B-2011 |
| 108.215 | 001 | Organic Carbon-Total (TOC) | SM 5310 B-2011 |
| 108.225 | 001 | Surfactants | SM 5540 C-2011 |
| 108.321 | 001 | Cyanide, Total | ASTM D7511-12 |
| 108.339 | 001 | Cyanide, Available | OIA-1677-09 |

**Field of Testing:** 109 – Metals and Trace Elements in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 001 | Aluminum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 002 | Antimony | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 003 | Arsenic | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 004 | Barium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 005 | Beryllium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 006 | Boron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 007 | Cadmium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 008 | Chromium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 009 | Cobalt | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 010 | Copper | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 011 | Iron | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 012 | Lead | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 013 | Manganese | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 014 | Molybdenum | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 015 | Nickel | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 016 | Selenium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 017 | Silver | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 018 | Thallium | EPA 200.7 (1994 Rev. 4.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.623 | 019 | Tin | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 020 | Titanium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 021 | Vanadium | EPA 200.7 (1994 Rev. 4.4) |
| 109.623 | 022 | Zinc | EPA 200.7 (1994 Rev. 4.4) |
| 109.625 | 001 | Aluminum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 002 | Antimony | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 003 | Arsenic | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 004 | Barium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 005 | Beryllium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 006 | Boron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 007 | Cadmium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 008 | Chromium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 009 | Cobalt | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 010 | Copper | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 012 | Iron | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 013 | Lead | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 014 | Manganese | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 015 | Molybdenum | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 016 | Nickel | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 017 | Selenium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 018 | Silver | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 019 | Thallium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 020 | Tin | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 021 | Titanium | EPA 200.8 (1994 Rev. 5.4) |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 109.625 | 022 | Vanadium | EPA 200.8 (1994 Rev. 5.4) |
| 109.625 | 023 | Zinc | EPA 200.8 (1994 Rev. 5.4) |
| 109.629 | 001 | Chromium (VI) | EPA 218.6 (1994 Rev. 3.3) |
| 109.635 | 001 | Mercury | EPA 245.1 (1994 Rev. 3.0) |
| 109.657 | 001 | Mercury | EPA 1631 E (2002) |

**Field of Testing:** 110 – Volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 001 | Acetone | EPA 624.1 |
| 110.040 | 002 | Acetonitrile | EPA 624.1 |
| 110.040 | 003 | Acrolein | EPA 624.1 |
| 110.040 | 004 | Acrylonitrile | EPA 624.1 |
| 110.040 | 005 | Benzene | EPA 624.1 |
| 110.040 | 006 | Bromodichloromethane | EPA 624.1 |
| 110.040 | 007 | Bromoform | EPA 624.1 |
| 110.040 | 008 | Bromomethane (Methyl Bromide) | EPA 624.1 |
| 110.040 | 009 | tert-Butyl Alcohol (TBA) | EPA 624.1 |
| 110.040 | 010 | Carbon Tetrachloride | EPA 624.1 |
| 110.040 | 011 | Chlorobenzene | EPA 624.1 |
| 110.040 | 012 | Chloroethane | EPA 624.1 |
| 110.040 | 013 | 2-Chloroethylvinyl Ether | EPA 624.1 |
| 110.040 | 014 | Chloroform | EPA 624.1 |
| 110.040 | 015 | Chloromethane (Methyl Chloride) | EPA 624.1 |
| 110.040 | 016 | Dibromochloromethane | EPA 624.1 |
| 110.040 | 017 | 1,2-Dichlorobenzene | EPA 624.1 |
| 110.040 | 018 | 1,3-Dichlorobenzene | EPA 624.1 |
| 110.040 | 019 | 1,4-Dichlorobenzene | EPA 624.1 |
| 110.040 | 020 | 1,1-Dichloroethane | EPA 624.1 |
| 110.040 | 021 | 1,2-Dichloroethane | EPA 624.1 |
| 110.040 | 022 | 1,1-Dichloroethene (1,1-Dichloroethylene) | EPA 624.1 |
| 110.040 | 023 | trans-1,2-Dichloroethene | EPA 624.1 |
| 110.040 | 024 | 1,2-Dichloropropane | EPA 624.1 |
| 110.040 | 025 | cis-1,3-Dichloropropene | EPA 624.1 |
| 110.040 | 026 | trans-1,3-Dichloropropene | EPA 624.1 |
| 110.040 | 029 | Ethylbenzene | EPA 624.1 |
| 110.040 | 031 | Methylene Chloride (Dichloromethane) | EPA 624.1 |
| 110.040 | 032 | 4-Methyl-2-pentanone (MIBK) | EPA 624.1 |
| 110.040 | 034 | 1,1,2,2-Tetrachloroethane | EPA 624.1 |
| 110.040 | 035 | Tetrachloroethylene (Tetrachloroethene) | EPA 624.1 |
| 110.040 | 037 | Toluene | EPA 624.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 110.040 | 038 | 1,1,1-Trichloroethane | EPA 624.1 |
| 110.040 | 039 | 1,1,2-Trichloroethane | EPA 624.1 |
| 110.040 | 040 | Trichloroethene | EPA 624.1 |
| 110.040 | 041 | Vinyl Chloride | EPA 624.1 |
| 110.040 | 042 | m-Xylene | EPA 624.1 |
| 110.040 | 043 | o-Xylene | EPA 624.1 |
| 110.040 | 044 | p-Xylene | EPA 624.1 |
| 110.040 | 045 | Trichlorofluoromethane | EPA 624.1 |
| 110.070 | 002 | n-Amyl Acetate | EPA 1666 |
| 110.070 | 004 | n-Butyl Acetate | EPA 1666 |
| 110.070 | 005 | tert-Butyl Alcohol (TBA) | EPA 1666 |
| 110.070 | 006 | Diethylamine | EPA 1666 |
| 110.070 | 007 | Dimethyl Sulfoxide | EPA 1666 |
| 110.070 | 009 | Ethyl Acetate | EPA 1666 |
| 110.070 | 010 | n-Heptane | EPA 1666 |
| 110.070 | 011 | n-Hexane | EPA 1666 |
| 110.070 | 012 | Isobutyraldehyde | EPA 1666 |
| 110.070 | 013 | Isopropyl Acetate | EPA 1666 |
| 110.070 | 014 | Isopropyl Alcohol (Isopropanol) | EPA 1666 |
| 110.070 | 015 | Isopropyl Ether (DIPE) | EPA 1666 |
| 110.070 | 017 | 2-Methoxyethanol | EPA 1666 |
| 110.070 | 018 | Methyl Formate | EPA 1666 |
| 110.070 | 019 | 4-Methyl-2-pentanone (MIBK) | EPA 1666 |
| 110.070 | 021 | Tetrahydrofuran | EPA 1666 |
| 110.070 | 022 | Triethylamine | EPA 1666 |
| 110.070 | 023 | m-Xylene | EPA 1666 |
| 110.070 | 024 | o-Xylene | EPA 1666 |
| 110.070 | 025 | p-Xylene | EPA 1666 |

**Field of Testing:** 111 – Semi-volatile Organic Constituents in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.055 | 001 | Aldrin | EPA 608.3 |
| 111.055 | 002 | alpha-BHC | EPA 608.3 |
| 111.055 | 003 | beta-BHC | EPA 608.3 |
| 111.055 | 004 | delta-BHC | EPA 608.3 |
| 111.055 | 005 | gamma-BHC (Lindane) | EPA 608.3 |
| 111.055 | 006 | Chlordane | EPA 608.3 |
| 111.055 | 007 | 4,4'-DDD | EPA 608.3 |
| 111.055 | 008 | 4,4'-DDE | EPA 608.3 |
| 111.055 | 009 | 4,4'-DDT | EPA 608.3 |
| 111.055 | 010 | Dieldrin | EPA 608.3 |
| 111.055 | 011 | Endosulfan I | EPA 608.3 |
| 111.055 | 012 | Endosulfan II | EPA 608.3 |
| 111.055 | 013 | Endosulfan Sulfate | EPA 608.3 |
| 111.055 | 014 | Endrin | EPA 608.3 |
| 111.055 | 015 | Endrin Aldehyde | EPA 608.3 |
| 111.055 | 016 | Heptachlor | EPA 608.3 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.055 | 017 | Heptachlor Epoxide | EPA 608.3 |
| 111.055 | 019 | PCB-1016 | EPA 608.3 |
| 111.055 | 020 | PCB-1221 | EPA 608.3 |
| 111.055 | 021 | PCB-1232 | EPA 608.3 |
| 111.055 | 022 | PCB-1242 | EPA 608.3 |
| 111.055 | 023 | PCB-1248 | EPA 608.3 |
| 111.055 | 024 | PCB-1254 | EPA 608.3 |
| 111.055 | 025 | PCB-1260 | EPA 608.3 |
| 111.055 | 046 | Methoxychlor | EPA 608.3 |
| 111.055 | 050 | Pentachloronitrobenzene (PCNB) | EPA 608.3 |
| 111.055 | 060 | Toxaphene | EPA 608.3 |
| 111.160 | 001 | Acenaphthene | EPA 625.1 |
| 111.160 | 002 | Acenaphthylene | EPA 625.1 |
| 111.160 | 003 | Anthracene | EPA 625.1 |
| 111.160 | 004 | Benzidine | EPA 625.1 |
| 111.160 | 005 | Benzo(a)anthracene | EPA 625.1 |
| 111.160 | 006 | Benzo(a)pyrene | EPA 625.1 |
| 111.160 | 007 | Benzo(b)fluoranthene | EPA 625.1 |
| 111.160 | 008 | Benzo(g,h,i)perylene | EPA 625.1 |
| 111.160 | 009 | Benzo(k)fluoranthene | EPA 625.1 |
| 111.160 | 010 | Bis(2-chloroethoxy) Methane | EPA 625.1 |
| 111.160 | 011 | Bis(2-chloroethyl) Ether | EPA 625.1 |
| 111.160 | 012 | Bis(2-chloroisopropyl) Ether | EPA 625.1 |
| 111.160 | 013 | Bis(2-ethylhexyl)phthalate | EPA 625.1 |
| 111.160 | 014 | 4-Bromophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 015 | Butyl Benzyl Phthalate | EPA 625.1 |
| 111.160 | 016 | 2-Chloronaphthalene | EPA 625.1 |
| 111.160 | 017 | 4-Chlorophenyl Phenyl Ether | EPA 625.1 |
| 111.160 | 018 | Chrysene | EPA 625.1 |
| 111.160 | 019 | Dibenz(a,h)anthracene | EPA 625.1 |
| 111.160 | 020 | 3,3'-Dichlorobenzidine | EPA 625.1 |
| 111.160 | 021 | Diethyl Phthalate | EPA 625.1 |
| 111.160 | 022 | Dimethyl Phthalate | EPA 625.1 |
| 111.160 | 023 | Di-n-butyl Phthalate | EPA 625.1 |
| 111.160 | 024 | 2,4-Dinitrotoluene | EPA 625.1 |
| 111.160 | 025 | 2,6-Dinitrotoluene | EPA 625.1 |
| 111.160 | 026 | Di-n-octyl Phthalate | EPA 625.1 |
| 111.160 | 027 | Fluoranthene | EPA 625.1 |
| 111.160 | 028 | Fluorene | EPA 625.1 |
| 111.160 | 029 | Hexachlorobenzene | EPA 625.1 |
| 111.160 | 030 | Hexachlorobutadiene | EPA 625.1 |
| 111.160 | 031 | Hexachloroethane | EPA 625.1 |
| 111.160 | 032 | Indeno(1,2,3-c,d)pyrene | EPA 625.1 |
| 111.160 | 033 | Isophorone | EPA 625.1 |
| 111.160 | 034 | Naphthalene | EPA 625.1 |
| 111.160 | 035 | Nitrobenzene | EPA 625.1 |
| 111.160 | 036 | N-nitrosodi-n-propylamine | EPA 625.1 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 111.160 | 037 | Phenanthrene | EPA 625.1 |
| 111.160 | 038 | Pyrene | EPA 625.1 |
| 111.160 | 039 | 1,2,4-Trichlorobenzene | EPA 625.1 |
| 111.160 | 040 | 4-Chloro-3-methylphenol | EPA 625.1 |
| 111.160 | 041 | 2-Chlorophenol | EPA 625.1 |
| 111.160 | 042 | 2,4-Dichlorophenol | EPA 625.1 |
| 111.160 | 043 | 2,4-Dimethylphenol | EPA 625.1 |
| 111.160 | 044 | 2,4-Dinitrophenol | EPA 625.1 |
| 111.160 | 045 | 2-Methyl-4,6-dinitrophenol | EPA 625.1 |
| 111.160 | 046 | 2-Nitrophenol | EPA 625.1 |
| 111.160 | 047 | 4-Nitrophenol | EPA 625.1 |
| 111.160 | 048 | Pentachlorophenol | EPA 625.1 |
| 111.160 | 049 | Phenol | EPA 625.1 |
| 111.160 | 050 | 2,4,6-Trichlorophenol | EPA 625.1 |
| 111.210 | 006 | Diuron | EPA 632 |
| 111.260 | 041 | N-nitrosodimethylamine | EPA 1625 B |
| 111.260 | 042 | N-nitrosodi-n-propylamine | EPA 1625 B |
| 111.260 | 043 | N-nitrosodiphenylamine | EPA 1625 B |

**Field of Testing:** 112 – Radionuclides in Non-Potable Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 112.001 | 001 | Gross Alpha | EPA 900.0 |
| 112.001 | 002 | Gross Beta | EPA 900.0 |

**Field of Testing:** 114 – Inorganic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.010 | 001 | Antimony | EPA 6010 B |
| 114.010 | 002 | Arsenic | EPA 6010 B |
| 114.010 | 003 | Barium | EPA 6010 B |
| 114.010 | 004 | Beryllium | EPA 6010 B |
| 114.010 | 005 | Cadmium | EPA 6010 B |
| 114.010 | 006 | Chromium | EPA 6010 B |
| 114.010 | 007 | Cobalt | EPA 6010 B |
| 114.010 | 008 | Copper | EPA 6010 B |
| 114.010 | 009 | Lead | EPA 6010 B |
| 114.010 | 010 | Molybdenum | EPA 6010 B |
| 114.010 | 011 | Nickel | EPA 6010 B |
| 114.010 | 012 | Selenium | EPA 6010 B |
| 114.010 | 013 | Silver | EPA 6010 B |
| 114.010 | 014 | Thallium | EPA 6010 B |
| 114.010 | 015 | Vanadium | EPA 6010 B |
| 114.010 | 016 | Zinc | EPA 6010 B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 114.020 | 004 | Beryllium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 010 | Molybdenum | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.106 | 001 | Chromium (VI) | EPA 7199 |
| 114.140 | 001 | Mercury | EPA 7470 A |
| 114.141 | 001 | Mercury | EPA 7471 A |
| 114.222 | 001 | Cyanide, Total | EPA 9014 |
| 114.240 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045 C |
| 114.250 | 001 | Fluoride | EPA 9056 |

**Field of Testing:** 115 – Extraction Test of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 (TCLP) |
| 115.021 | 001 | TCLP Inorganics | EPA 1311 (TCLP) |
| 115.022 | 001 | TCLP Extractables | EPA 1311 (TCLP) |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter 11, Article 5, Appendix II |
| 115.040 | 001 | Synthetic Precipitation Leaching Procedure (SPLP) | EPA 1312 (SPLP) |

**Field of Testing:** 116 – Volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 116.020 | 030 | Nonhalogenated Volatiles | EPA 8015 B |
| 116.020 | 031 | Ethanol and Methanol | EPA 8015 B |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260 B |
| 116.090 | 000 | Acrylamide, Acrylonitrile, Acrolein | EPA 8316 |
| 116.100 | 001 | Total Petroleum Hydrocarbons - Gasoline (GRO) | LUFT GC/MS |

**Field of Testing:** 117 – Semi-volatile Organic Chemistry of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015 B |
| 117.110 | 000 | Extractable Organics | EPA 8270 C |
| 117.111 | 071 | Pesticides | EPA 8270 C |
| 117.150 | 000 | Carbonyl Compounds | EPA 8315 A |
| 117.171 | 000 | Nitroaromatics and Nitramines | EPA 8330 A |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081 A |
| 117.220 | 000 | PCBs | EPA 8082 |
| 117.240 | 000 | Organophosphorus Pesticides | EPA 8141 A |
| 117.250 | 000 | Chlorinated Herbicides | EPA 8151 A |
| 117.270 | 000 | Carbamates, N-methylcarbamates | EPA 8318 |
| 117.280 | 000 | Carbamates | EPA 8321 A |

**Field of Testing:** 120 – Physical Properties of Hazardous Waste

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.070 | 001 | Corrosivity - pH Determination | EPA 9040 B |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045 C |

**Field of Testing:** 126 – Microbiological Methods for Ambient Water

| Subgroup Code | Analyte Code | Analyte | Method |
|---|---|---|---|
| 126.003 | 001 | Total Coliform (Enumeration) | SM 9221 B, C-2006 |
| 126.003 | 002 | Fecal Coliform (Enumeration) | SM 9221 C, E-2006 |
| 126.007 | 001 | E. coli (Enumeration) | SM 9223 B-2004 |
| 126.015 | 001 | E. coli (Enumeration) | Colilert |
| 126.017 | 001 | E. coli (Enumeration) | Colilert 18 |
| 126.019 | 001 | Enterococci | Enterolert |