



## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### ELEMENT SAUDI ARABIA COMPANY LIMITED<sup>1</sup>

Quissim Street / 133 Road  
II Industrial City  
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### CHEMICAL

Valid To: February 28, 2027

Certificate Number: 5669.10

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests: leachates waters (raw, effluent, leachate and groundwater), waste waters (untreated and treated domestic and industrial waste water), saline waters, potable water, soils and metals:

| Test(s):                                                                                                                                                                                                       | Test Method(s):                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Waters (Leachates, Waste & Saline)<br>Elemental Analysis by ICP-MS<br>(Al, As, Ag, Ba, Be, B, Cd, Ca, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Se, Sb, Si, Sn, Sr, Ti, Tl, U, V, Zn)              | USEPA 3050B, 3125<br>EL-M-OP-CH-AKB-MD133        |
| Waters (Potable)<br>Elemental Analysis by ICP-MS<br>(Al, As, Ag, Ba, Be, B, Cd, Ca, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Se, Sb, Si, Sn, Sr, Ti, Tl, U, V, Zn)                                | APHA 3125<br>EL-M-OP-CH-AKB-MD131                |
| Waters & Soils<br>Elemental Analysis by ICP-OES<br>(Al, As, Ag, Ba, Be, B, Cd, Ca, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Se, Sb, Si, Sn, Sr, Ti, Tl, U, V, Zn)                                 | APHA 3120<br>USEPA 6010D<br>EL-M-OP-CH-AKB-MD106 |
| Ion Chromatography – Determination of Anions and Oxyhalides<br>Bromate<br>Bromide<br>Chlorate<br>Chloride<br>Chlorite<br>Fluoride<br>Nitrate<br>Nitrite<br>Ortho - phosphate<br>Sulphate<br>(Waters – Potable) | APHA 4110 D<br>EL-M-OP-CH-AKB-MD322A             |
| FTIR – Oil and Grease (Waters – Potable)                                                                                                                                                                       | ASTM D7678<br>EL-M-OP-CH-AKB-MD414               |

| Test(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Test Method(s):                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oil and Grease<br>(Waters – Saline)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APHA 5220B (Gravimetric);<br>EL-M-OP-CH-AKB-MD414A<br>by Gravimetric                                                                                   |
| Waters (Potable & Saline) & Soils<br>Semi Volatile Organic Compounds (SVOCs) and<br>Polycyclic Aromatic Hydrocarbon (PAHs) by GC-MS<br>including:<br>Azobenzene<br>1,2-Dichlorobenzene<br>1,3-Dichlorobenzene<br>1,4-Dichlorobenzene<br>1,2,4-Trichlorobenzene<br>Hexachlorobenzene<br>Nitrobenzene<br>2,4-Dinitrotoluene<br>2,6-Dinitrotoluene<br>2-Chlorophenol<br>2,4-Dichlorophenol<br>2,4,5-Trichlorophenol<br>2,4,6-Trichlorophenol<br>o-Cresol<br>p-Cresol<br>2-Nitrophenol<br>2,4-Dimethylphenol<br>4-Chloro-3-methylphenol<br>Dimethyl phthalate<br>Diethyl phthalate<br>Bis (2-ethylhexyl) phthalate<br>Butyl benzylphthalate<br>Di-n-butylphthalate<br>Di-n-octylphthalate<br>4-Chlorodiphenylether<br>4-Bromophenyl phenylether<br>Dibenzofuran<br>Isophorone<br>Hexachloroethane<br>n-nitrosodi-n-propylamine<br>Bis (2-chloroisopropyl) ether<br>Bis (2-chloroethyl) ether<br>n-nitrosodimethylamine<br>Bis (2-chloroethoxy) metyhane 4-Chloroaniline<br>2-Nitroaniline<br>Hexachlorobutadiene<br>Hexachlorocyclopentadiene<br>Naphthalene<br>2-Methylnaphthalene<br>2-Chloronaphthalene<br>Naphthalene | EPA 8270 E<br><br>EL-M-OP-CH-AKB-MD406<br>for SVOC's<br><br>EL-M-OP-CH-AKB-MD403B<br>for PAH in Soils<br><br>EL-M-OP-CH-AKB-MD403A<br>for PAH in Water |

| Test(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test Method(s):                       |
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| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Carbazole<br>Benzo (a) anthracene<br>Benzo (b) fluoranthene<br>Benzo (k) fluoranthene<br>Benzo (g, h, i) preylene<br>Benzo (a) pyrene<br>Chrysene<br>Fluorene<br>Fluoroanthene<br>Dibenze (a, h) anthracene<br>Ideno(1, 2, 3 - c, d)Pyrene<br>Phenathrene<br>Pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |
| Waters & Soils<br>Volatile Organic Compound by (GCMS- Purge & Trap)<br><br>1,2-dichloro Ethene (Z)<br>Dichlorodifluoromethane<br>Chloromethane<br>1,3-dichloro-1-Propene, (Z)<br>Vinyl Chloride<br>BromoMethane<br>Chloroethane<br>1,2,4-trimethyl-Benzene<br>Trichloromonofluoromethane<br>1,2-dichloro-Benzene<br>Vinyl Acetate<br>Methyl tert-butyl ether<br>Methylene chloride<br>1,2-dichloro-Ethlene, (E)<br>2-Butanone (MEK)<br>1,1-dichloro-Ethane<br>2-Hexanone (MBK)<br>4-methyl-2-pentanone (MIBK)<br>1,1-dichloroEthene<br>BromochloroMethane<br>Chloroform<br>2,2-dichloro-Propane<br>Pentachloroethane<br>Acetone<br>1,2-dichloro Ethane<br>1,1,1-trichloro-Ethane<br>1,1-dichloro Propene<br>Carbon Tetrachloride<br>Benzene<br>Dibromo methane | USEPA 8260 C<br>EL-M-OP-CH-AKB-MD404A |

| Test(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test Method(s): |
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| 1,2-dichloro-Propane<br>Trichloroethene<br>BromodichloroMethane<br>1,3-dichloro-1-Propene, (E)<br>1,1,2-trichloro Ethane<br>Toluene<br>1,3-dichloro Propane<br>Diibromochloro Methane<br>1,2-dibromo Ethane<br>Tetrachloroethene<br>1,1,1,2-tetrachloroEthane<br>Chloro Benzene<br>Ethylbenzene<br>1,3-dimethyl-Benzene<br>Bromoform<br>Styrene<br>o-Xylene<br>1,2,3-trichloroPropane<br>m+p-Xylene<br>BromoBenzene<br>iso-Propyl Benzene<br>4-chloro toluene<br>2-chloro toluene<br>1,3,5-trimethylbenzene<br>tert-butylbenzene<br>p- Isopropyl toluene<br>1,4-dichloro-Benzene<br>o-Cymene<br>1,3-dichloro Benzene<br>n-butylBenzene<br>1,2-dibromo-3-chloro-Propane<br>1,3,5-trichloro-Benzene<br>Naphthalene<br>HexachloroButadiene<br>1,2,3-trichloro-Benzene<br>tert-Amyl methyl ether<br>n-Propyl Benzene<br>1,1,2,2-tetrachloroEthane<br>1,2,4-trichloro-Benzene<br>1,2-dichloro Ethene (Z)<br>Dichlorodifluoromethane<br>Chloromethane<br>1,3-dichloro-1-Propene, (Z)<br>Vinyl Chloride<br>BromoMethane<br>Chloroethane<br>1,2,4-trimethyl-Benzene<br>Trichloromonofluoromethane<br>1,2-dichloro-Benzene<br>Vinyl Acetate |                 |

| Test(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Test Method(s): |
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| Methyl tert-butyl ether<br>Methylene chloride<br>1,2-dichloro-Ethlene, (E)<br>2-Butanone (MEK)<br>1,1-dichloro-Ethane<br>2-Hexanone (MBK)<br>4-methyl-2-pentanone (MIBK)<br>1,1-dichloroEthene<br>BromochloroMethane<br>Chloroform<br>2,2-dichloro-Propane<br>Pentachloroethane<br>Acetone<br>1,2-dichloro Ethane<br>1,1,1-trichloro-Ethane<br>1,1-dichloro Propene<br>Carbon Tetrachloride<br>Benzene<br>Dibromo methane<br>1,2-dichloro-Propane<br>Trichloroethene<br>BromodichloroMethane<br>1,3-dichloro-1-Propene, (E)<br>1,1,2-trichloro Ethane<br>Toluene<br>1,3-dichloro Propane<br>Diibromochloro Methane<br>1,2-dibromo Ethane<br>Tetrachloroethene<br>1,1,1,2-tetrachloroEthane<br>Chloro Benzene<br>Ethylbenzene<br>1,3-dimethyl-Benzene<br>Bromoform<br>Styrene<br>o-Xylene<br>1,2,3-trichloroPropane<br>m+p-Xylene<br>BromoBenzene<br>iso-Propyl Benzene<br>4-chloro toluene<br>2-chloro toluene<br>1,3,5-trimethylbenzene<br>tert-butylbenzene<br>p- Isopropyl toluene<br>1,4-dichloro-Benzene<br>o-Cymene<br>1,3-dichloro Benzene<br>n-butylBenzene |                 |

| Test(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test Method(s):                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 1,2-dibromo-3-chloro-Propane<br>1,3,5-trichloro-Benzene<br>Naphthalene<br>HexachloroButadiene<br>1,2,3-trichloro-Benzene<br>tert-Amyl methyl ether<br>n-Propyl Benzene<br>1,1,2,2-tetrachloroEthane<br>1,2,4-trichloro-Benzene                                                                                                                                                                                                                                                            |                                                |
| Waters & Soils<br>Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG)<br>Aliphatics >C8-C10<br>Aliphatics >C10-C12<br>Aliphatics >C12-C16<br>Aliphatics >C16-C21<br>Aliphatics >C21-C35<br>Aliphatics >C35<br>Aromatics >EC8-EC10<br>Aromatics >EC10-EC12<br>Aromatics >EC12-EC16<br>Aromatics >EC16-EC21<br>Aromatics >EC21-EC35<br>Aromatics >EC35<br>Aromatics >C10-C40                                                                                                        | USEPA 8015D<br>EL-M-OP-CH-AKB-MD433            |
| Waters & Soils<br>Extractable Petroleum Hydrocarbons (EPH) and Total Petroleum Hydrocarbons (TPH) (>C10 to C40) by GC-FID                                                                                                                                                                                                                                                                                                                                                                 | EPA 8015<br>EL-M-OP-CH-AKB-MD401               |
| Waters (Potable, Effluent & Saline) & Soils Volatile Organic Compounds (VOCs) by GC-MS Headspace, including:<br>Dichlorodifluoromethane<br>Vinyl Chloride<br>Bromomethane<br>Chloroethane<br>Trichlorofluoromethane<br>1,1-Dichloroethane<br>Methylene Chloride<br>Methyl Tert-butyl ether (MTBE)<br>trans-1,2 Dichloroethene<br>1,1-Dichloroethane<br>cis-1,2-Dichloroethane<br>2,2-Dichloropropane<br>Bromochloromethane<br>Chloroform<br>Carbon tetrachloride<br>1,1,1-Trichloroethane | EPA 5021<br>EPA 8260 D<br>EL-M-OP-CH-AKB-MD404 |

| Test(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Test Method(s):                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1,1-Dichloropropene<br>Benzene<br>1,2-Dichloroethane<br>tert-Amylmethylether (TAME)<br>Trichloroethene<br>1,2-Dichloropropane<br>Bromodichloromethane<br>Dibromomethane<br>Toluene<br>cis-1,3-Dichloropropene<br>trans-1,3-Dichloropropene<br>1,1,2-Trichloroethane<br>Tetrachloroethene<br>Chlorodibromomethane<br>1,2-Dibromoethane<br>1,3-Dichloropropane<br>Ethylbenzene<br>1,1,1,2-Tetrachloroethane<br>Chlorobenzene<br>m, p - Xylene<br>o-Xylene<br>Bromoform<br>Styrene<br>Isopropylbenzene<br>Bromobenzene<br>n-Propylbenzene<br>1,1,2,2-Tetrachloroethane<br>1,2,3-Trichloropropane<br>1,3,5-trimethylbenzene<br>2-Chlorotoluene<br>4-Chlorotoluene<br>tert-Butylbenzene<br>1,2,4-Trimethylbenzene<br>sec-Butylbenzene<br>4-Isopropyltoluene<br>1,3-Dichlorobenzene<br>1,4-Dichlorobenzene<br>n-Butylbenzene<br>1,2-Dibromo-3-Chloropropane<br>1,2-Diclorobenzene<br>1,2,4-Trichlorobenzene<br>Hexachlorobutadiene<br>Naphthalene<br>1,2,3-Trichlorobenzene<br>Tertiary-Butyl alcohol<br>(Waters - potable, effluent, saline waters & soils) |                                              |
| Waters (Potable, Effluent & Saline) Soils<br>GC-FID Headspace;<br>Volatile Petroleum Hydrocarbons C5 - C10 (VPH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EPA 5021<br>EPA 8015<br>EL-M-OP-CH-AKB-MD405 |

| <b>Test(s):</b>                                                                                                                 | <b>Test Method(s):</b>                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| MTBE<br>Benzene<br>Toluene<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>p-Xylene                                                  |                                                                                               |
| <u>Waters:</u>                                                                                                                  |                                                                                               |
| Conductivity                                                                                                                    | APHA 2150B (Electrode)<br>EL-M-OP-CH-AKB-MD201                                                |
| Alkalinity                                                                                                                      | APHA 2320 (Titration)<br>EL-M-OP-CH-AKB-MD210                                                 |
| Hardness                                                                                                                        | APHA 2340B (ICP-MS and Calculation)<br>EL-M-OP-CH-AKB-MD211<br>APHA 2340C (Titration)         |
| TDS                                                                                                                             | APHA 2540C (Electrode / Gravimetric)<br>ASTM D5907<br>EL-M-OP-CH-AKB-MD208                    |
| TSS                                                                                                                             | APHA 2540D (Gravimetric)<br>ASTM D5907<br>EL-M-OP-CH-AKB-MD209                                |
| pH                                                                                                                              | APHA 4500 H + B (Electrode)<br>ASTM D1293<br>EL-M-OP-CH-AKB-MD301                             |
| Residual Chlorine                                                                                                               | APHA 4500Cl<br>(Spectrophotometer)<br>Hach 8167 (Total Chlorine)<br>Hach 8021 (Free Chlorine) |
| TOC                                                                                                                             | APHA 5310B (OX-IR)<br>EL-M-OP-CH-AKB-MD319                                                    |
| <u>Soils:</u>                                                                                                                   |                                                                                               |
| Chloride                                                                                                                        | BS 1377-3 (Titration)                                                                         |
| Total Sulfate                                                                                                                   | BS 1377-3 (Gravimetric)                                                                       |
| Elemental Analysis<br>(Al, As, Ag, Ba, Be, B, Cd, Co, Cr, Cu, Fe, Hg, Li, Mn, Mo, Na, Ni, Pb, Se, Sb, Sn, Sr, Ti, Tl, U, V, Zn) | APHA 3125 (ICP-MS)<br>EL-M-OP-CH-AKB-MD112                                                    |
| pH                                                                                                                              | BS 1377-3 (Electrode)                                                                         |
| <u>Metals:</u>                                                                                                                  |                                                                                               |
| Elemental Analysis by OES using Direct Reading Optical Emission Spectrometry techniques                                         | ASTM E415<br>EL-M-OP-CH-AKB-MD101                                                             |
| Analysis of Irons, Steels and Stainless Steels – Agilent ICP-OES                                                                | ASTM A751<br>EL-M-OP-CH-AKB-MD107                                                             |
| Analysis of Irons, Steels and Stainless Steels by Spark-OES                                                                     | EL-M-OP-CH-AKB-MD110A                                                                         |
| Analysis of Nickel Alloy by ICP-OES                                                                                             | ASTM A751<br>ASTM E2594<br>EL-M-OP-CH-AKB-MD110                                               |

| <b>Test(s):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Test Method(s):</b>                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Carbon and Sulfur by Combustion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASTM E1019<br>EL-M-OP-CH-AKB-MD119                               |
| Total Nitrogen by Inert Gas Fusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASTM E1019<br>EL-M-OP-CH-AKB-MD128                               |
| PCBs in Water and Soils by GC-MS<br>2,4-Dichlorobiphenyl (PCB-7)<br>2,2,5-Trichlorobiphenyl (PCB-18)<br>2,4,4-Trichlorobiphenyl (PCB-28)<br>2,2,3,5-Tetrachlorobiphenyl (PCB-43)<br>2,2,5,5-Tetrachlorobiphenyl (PCB-52)<br>2,3,4,4-Tetrachlorobiphenyl (PCB-60)<br>3,3,4,4-Tetrachlorobiphenyl (PCB-77)<br>2,2,4,5,5-Pentachlorobiphenyl (PCB-101)<br>2,3,3,4,4-Pentachlorobiphenyl (PCB-105)<br>2,3,4,4,5-Pentachlorobiphenyl (PCB-114)<br>3,3,4,4,5-Pentachlorobiphenyl (PCB-126)<br>2,2,3,3,4,4-Hexachlorobiphenyl (PCB-128)<br>2,2,3,4,4,5-Hexachlorobiphenyl (PCB-137)<br>2,2,4,4,5,5-Hexachlorobiphenyl (PCB-153)<br>2,2,3,3,4,4,5-Heptachlorobiphenyl (PCB-170)<br>2,2,3,4,4,5,5-Heptachlorobiphenyl (PCB-180)<br>2,2,3,4,5,5,6-Heptachlorobiphenyl (PCB-185)<br>2,2,3,3,4,4,5,6-Octachlorobiphenyl (PCB-195)<br>2,2,3,3,4,4,5,5,6-Nonachlorobiphenyl (PCB-206)<br>2,2,3,3,4,4,5,5,6,6-Decachlorobiphenyl (PCB-207) | EPA 8270 E<br><br>EL-M-OP-CH-AKB-MD416<br>PCB in Water and Soils |
| <u>Aggregates:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |
| Chloride (Water and Acid Soluble)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BS EN 1744-1                                                     |
| Total Sulphate (Water and Acid Soluble)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BS EN 1744-1                                                     |
| <u>Hardened Concrete:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                  |
| Chloride (Water and Acid Soluble)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BS 1881-124                                                      |
| Total Sulphate (Water and Acid Soluble)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BS 1881-124                                                      |

<sup>1</sup> This accreditation covers testing performed at the main laboratory, as well as the satellite laboratories listed below.

ELEMENT SAUDI ARABIA COMPANY LIMITED  
Batching Plant Area, Neom Community 2, Sharma  
Tabuk, Kingdom of Saudi Arabia

| Test(s):                                                       | Test Method(s):                                                             |
|----------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Water</b>                                                   |                                                                             |
| pH                                                             | EL-M-OP-CH-NEOM-MD301<br>APHA 4500 H + B (Electrode)<br>ASTM D1293          |
| Electrical Conductivity                                        | EL-M-OP-CH-NEOM-MD201<br>APHA 2150B (Electrode)                             |
| Turbidity                                                      | EL-M-OP-CH-NEOM-MD203<br>APHA 2130-B                                        |
| Nitrate                                                        | EL-M-OP-CH-NEOM-MD315<br>HACH 8171/ APHA 4500-NO <sub>3</sub> -B            |
| Nitrite                                                        | EL-M-OP-CH-NEOM-MD317<br>HACH 8507/ APHA 4500-NO <sub>2</sub> -B            |
| Sulphate                                                       | EL-M-OP-CH-NEOM-MD331<br>HACH 8051/ APHA 4500 SO <sub>4</sub> -E            |
| Phosphate                                                      | EL-M-OP-CH-NEOM-MD326<br>HACH 8040<br>APHA 4500-P-E<br>USEPA 365.2          |
| Ammonia                                                        | EL-M-OP-CH-NEOM-MD302<br>HACH 8155<br>EPA350.1<br>APHA NH <sub>3</sub>      |
| Free Chlorine                                                  | EL-M-OP-CH-NEOM-MD206<br>HACH 8021<br>APHA 4500-Cl-G                        |
| Total Chlorine                                                 | EL-M-OP-CH-NEOM-MD206A<br>HACH 8167<br>APHA 4500-Cl-G                       |
| Fluoride                                                       | EL-M-OP-CH-NEOM-MD328<br>HACH 8029<br>USEPA 340.1<br>APHA 4500F B-D         |
| Colour                                                         | EL-M-OP-CH-NEOM-MD204<br>HACH 8025                                          |
| Total Dissolved Solid                                          | EL-M-OP-CH-NEOM-MD208<br>APHA 2540C (Electrode / Gravimetric)<br>ASTM D5907 |
| Total Suspended solid                                          | EL-M-OP-CH-NEOM-MD209<br>APHA 2540D (Gravimetric)<br>ASTM D5907             |
| Alkalinity (Including HCO <sub>3</sub> , CO <sub>3</sub> , OH) | EL-M-OP-CH-NEOM-MD210<br>APHA 2320 (Titration)                              |
| Chloride                                                       | EL-M-OP-CH-NEOM-MD325<br>APHA 4500 Chloride -B (Titration)<br>ASTM D512-12  |

| <b>Test(s):</b>                    | <b>Test Method(s):</b>                                                                                                                        |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Oil and Grease                     | APHA 5220B (Gravimetric)<br>EL-M-OP-CH-NEOM-MD414A                                                                                            |
| Chemical Oxygen Demand (COD)       | APHA 52220C<br>EL-M-OP-CH-NEOM-MD307                                                                                                          |
| Biochemical Oxygen Demand (BOD)    | APHA 5210B<br>APHA 4500-0 C<br>EL-M-OP-CH-NEOM-MD304                                                                                          |
| <u>Hardness:</u>                   |                                                                                                                                               |
| Calcium Hardness<br>Total Hardness | EL-M-OP-CH-NEOM-MD211<br>APHA 2340-C Titration<br>APHA 2340-B Calculation<br>EL-M-OP-CH-NEOM-MD211A<br>APHA 3500-Ca-B titration & Calculation |



## Accredited Laboratory

A2LA has accredited

**ELEMENT SAUDI ARABIA COMPANY LIMITED**

*Dammam, Saudi Arabia*

for technical competence in the field of

**Chemical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 19<sup>th</sup> day of March 2025.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 5669.10  
Valid to February 28, 2027

*For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.*