

# EIM Help – Manchester Lab LIMS QC Fields

Version 4.0

June 2023

## How to Use This Help

### Overview

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Use this document in tandem with the [EIM Results Template Help](#) (columns A-BL) to interpret the fields in your Manchester Environmental Lab (MEL) batch file or EDD.

When MEL sends EIM Results data electronically, they include lab quality control (QC) data at the end of batch file or EDD. Identify this data in your batch file or EDD by looking at Column D, Field Collection Type. If it's "QC," "QC Blank," or "QC Surrogate," it's MEL QC data.

**Note:** We **don't load lab QC data into EIM, EXCEPT FOR** method blank data for low-level PCBs by EPA1668C, B, or A, and MEL730138 v1.0. These data will say "QC Blank" in Field Collection Type (Column D). To learn more, [download help for Low-Level PCB Congener Data](#).

Delete these rows and columns before submitting data to EIM:

- Rows with "QC" and "QC Surrogate" in the Field Collection Type.
- Columns prefixed with "MEL" (BM-CD).

### Key to Help Fields in Grid

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- **Column (Col):** Column heading (BM, BN, BO, etc.) in the EIM MEL EDD.
- **Field Name:** EIM MEL EDD field name.
- **Description:** EIM MEL EDD field description.
- **Type:** Type of data field, like text, number, date, or time.
- **Size:** The maximum number or length of characters allowed.
- **Valid Values and Conditions:** Accepted values and format.
- **Examples and Guidance:** Examples are in bulleted lists.

## Grid – MEL QA Field Information

Col	Field Name	Description	Type	Size	Valid Values and Conditions	Examples and Guidance
BM	MEL Client	Name of project manager or data recipient.	Text	50	Format: "Last Name, First Name"	<ul style="list-style-type: none"> <li>▪ Morris, Stuart</li> </ul>
BN	MEL Client Email	Email address of project manager or data recipient.	Text	50	Format: email address	<ul style="list-style-type: none"> <li>▪ Stuart.Morris@ecy.wa.gov</li> </ul>
BO	MEL Project Name	Name of the MEL project. Ideally should match EIM Study Name.	Text	100		<ul style="list-style-type: none"> <li>▪ Snoqualmie River TMDL</li> </ul>
BP	MEL Analysis Code	Code for the analysis recorded in LIMS.	Text	50	See <a href="#">table of MEL Analysis Codes</a> (in this document)	<ul style="list-style-type: none"> <li>▪ Hg = mercury analysis</li> <li>▪ BNA = base/neutral/acid</li> <li>▪ TSS = total suspended solids</li> </ul>
BQ	MEL Date Extracted	Date sample was prepared (extracted or digested).	Date	16	MM/DD/YYYY	<ul style="list-style-type: none"> <li>▪ 5/9/2023</li> </ul>
BR	MEL Dilution	Sample dilution factor, performed prior to analysis.	Number			<ul style="list-style-type: none"> <li>▪ 2</li> <li>▪ 10</li> <li>▪ 20</li> </ul>
BS	MEL Result Type	Type of result.	Text	1	<ul style="list-style-type: none"> <li>▪ <b>R</b> = Regular target analyte</li> <li>▪ <b>S</b> = Surrogate</li> <li>▪ <b>T</b> = Tentatively identified compound (TIC)</li> </ul>	<p>If you load TICs into EIM, qualify them with a Result Data Qualifier that begins with "N."</p> <p><a href="#">Search for EIM Result Data Qualifier Valid Values (online).</a></p>

Col	Field Name	Description	Type	Size	Valid Values and Conditions	Examples and Guidance
BT	MEL QC Type	Quality control sample type. (In the EDD, this field is blank for non-QC samples).	Text	4	<ul style="list-style-type: none"> <li>▪ <b>DUP#</b> = Duplicate</li> <li>▪ <b>BLK#</b> = Blank</li> <li>▪ <b>BS#</b> = Blank spike</li> <li>▪ <b>BSD#</b> = Blank spike duplicate</li> <li>▪ <b>MS#</b> = Matrix spike</li> <li>▪ <b>MSD#</b> = Matrix spike duplicate</li> <li>▪ <b>SRM#</b> = Standard reference material</li> </ul>	<ul style="list-style-type: none"> <li>▪ DUP1</li> <li>▪ DUP2</li> </ul>
BU	MEL Sample Source ID	Lab sample number of native sample used for duplicate or matrix spike.	Text	10	Format: YYMMNNN-NN <ul style="list-style-type: none"> <li>▪ <b>YY</b> = 2-digit year</li> <li>▪ <b>MM</b> = 2-digit month</li> <li>▪ <b>NNN</b> = 3 digits assigned sequentially when work orders are created, 001 to 999</li> <li>▪ <b>NN</b> = 2 digits indicating 1st, 2nd, 3rd, etc.</li> </ul>	<ul style="list-style-type: none"> <li>▪ 1004030-01</li> </ul>
BV	MEL Spiked Amount	Amount of spike analyte added to a sample or QC sample.	Number			<ul style="list-style-type: none"> <li>▪ 1.98</li> </ul>
BW	MEL Spike Result Amount	Amount of spike analyte detected in a spiked sample.	Number			<ul style="list-style-type: none"> <li>▪ 1.94</li> </ul>
BX	MEL Spike Units	Units for Spiked Amount and Spike Result Amount.	Text	10	<a href="#">Search for EIM Units (online)</a>	<ul style="list-style-type: none"> <li>▪ ug/L</li> </ul>

Col	Field Name	Description	Type	Size	Valid Values and Conditions	Examples and Guidance
BY	MEL RPD	Relative percent difference (RPD) between two laboratory duplicates.	Number or text		▪ <b>NC</b> = Not calculated	▪ 41
BZ	MEL QC RPD Limit	Relative percent difference control limit.	Number			▪ 40
CA	MEL QC Lower Limit	Lower control limit.	Number			▪ 50
CB	MEL QC Upper Limit	Upper control limit.	Number			▪ 150
CC	MEL Work ID	ID assigned to project by MEL.	Number			▪ 2007042
CD	MEL QC Name	Customizable codes for QC samples.	Text	30		<ul style="list-style-type: none"> <li>▪ Laboratory Control Sample</li> <li>▪ OPR</li> <li>▪ LLOPR1</li> <li>▪ SRM</li> </ul>

## MEL Analysis Codes

Descriptions and metadata for MEL analysis codes in column BL. Note: Truncated words and phrases came that way from MEL's LIMS.

Last updated 2021-06-21.

Department	Analysis Code	Analysis Description	Additional Description
General Chemistry	ACIDITY	Acidity, Titrimetric (pH 8.2)	Quantitative capacity to react with a strong base
General Chemistry	AFDW	Dry and Ash-Free Weight	Ash Free Dry Weight
General Chemistry	ALK	Alkalinity; Total Hydroxide, Bicarbonate, Carbonat	Alkalinity

Department	Analysis Code	Analysis Description	Additional Description
General Chemistry	ALKCO3	Alkalinity; Total Hydroxide, Bicarbonate, Carbonate	Alkalinity as Carbonate
General Chemistry	ALK-DIS	Alkalinity; Total Hydroxide, Bicarbonate, Carbonat	Alkalinity, Dissolved
General Chemistry	ALKHCO3	Alkalinity; Total Hydroxide, Bicarbonate, Carbonat	Alkalinity as Bicarbonate
General Chemistry	ANC	Acid Neutralizing Capacity	Acid Neutralizing Capacity
General Chemistry	BOD5	Biochemical Oxygen Demand (BOD), 20 degrees C	Biochemical Oxygen Demand five day test
General Chemistry	BOD5INH	Biochemical Oxygen Demand (BOD), 20 degrees C	Inhibited Biochemical Oxygen Demand
General Chemistry	BOD5INH-DIS	Inhibited Dissolved BOD5	Inhibited Dissolved Biochemical Oxygen Demand
General Chemistry	BODULT	Ultimate BOD Test (Proposed)	Ultimate Biochemical Oxygen Demand
General Chemistry	Bromide	Inorganic Anions, Ion Chromatography	Bromide
General Chemistry	Bromide-DIS	Inorganic Anions, Ion Chromatography	Bromide, Dissolved
General Chemistry	CHLOROPH	Chlorophyll a and Pheopigment determination modifi	Chlorophyll
General Chemistry	CHLOROPH-F	Chlorophyll a and Pheopigment determination modifi	Chlorophyll
General Chemistry	CL	Inorganic Anions, Ion Chromatography	Chlorides
General Chemistry	CL-DIS	Inorganic Anions, Ion Chromatography	Chlorides, Dissolved
General Chemistry	EOX	Total Organic Halides (TOX)	Extractable Organic Halogens
General Chemistry	FL	Inorganic Anions, Ion Chromatography	Fluoride
General Chemistry	FL-DIS	Inorganic Anions, Ion Chromatography	Fluoride Dissolved
General Chemistry	LOI-104	Loss On Ignition of Solid Combustion Residues	Loss On Ignition @ 104C
General Chemistry	LOI-550	Loss On Ignition of Solid Combustion Residues	Loss On Ignition @ 550C
General Chemistry	LOI-950	Loss On Ignition of Solid Combustion Residues	Loss On Ignition @ 950C
General Chemistry	LOI-IM	Loss On Ignition - Initial Mass	Loss On Ignition - Initial Mass
General Chemistry	NH3	Flow Injection Analysis	Ammonia as N
General Chemistry	NH3-DIS	Flow Injection Analysis	Ammonia as N - Dissolved
General Chemistry	NO2	Cadmium Reduction Flow Injection for NO2 & NO2+NO3	Nitrite as N
General Chemistry	NO2-IC	NO2 by EPA300.0	Nitrite as N

Department	Analysis Code	Analysis Description	Additional Description
General Chemistry	NO2NO3	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day 10	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day 15	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day 2	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day 20	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day 30	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day 5	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day 60	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3 Day10-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO2NO3 Day15-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO2NO3 Day20-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO2NO3 Day2-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO2NO3 Day30-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO2NO3 Day5-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO2NO3 Day60-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO2NO3-60day-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N
General Chemistry	NO2NO3-DIS	Cadmium Reduction Flow Injection	Nitrite/Nitrate as N - Dissolved
General Chemistry	NO3	Cadmium Reduction Flow Injection for NO2 & NO2+NO3	Nitrate as N
General Chemistry	NO3-IC	NO3 by EPA300.0	Nitrate as N
General Chemistry	NO3-IC-DW	NO3 by EPA300.0 - Drinking Water	Nitrate as N in Drinking Water
General Chemistry	OC	Thermal Optical Transmittance Proceedure	Organic carbon
General Chemistry	OG	N-Hexane Extractable Material (HEM) and Silica Gel	Oil and Grease
General Chemistry	PC	Particulate Carbon	Particulate Carbon
General Chemistry	PCTAD	Percent Air Dried Solids in Solid and Sediments	Percent Air Dried Solids
General Chemistry	PCTSOL	Total, Fixed, and Volatile Solids in Solid and Sem	Percent Solids

Department	Analysis Code	Analysis Description	Additional Description
General Chemistry	PH	pH	pH
General Chemistry	PHEOT	Chlorophyll a and Pheopigment determination modifi	Pheopigments - Turner
General Chemistry	PHEOW	Chlorophyll a and Pheopigment determination modifi	Pheopigments - Welshmire
General Chemistry	PHYTOPK	Visual Identification using a microscope	Phytoplankton
General Chemistry	PN	Particulate Nitrogen	Particulate Nitrogen
General Chemistry	POC	Particulate Organic Carbon	Particulate Organic Carbon
General Chemistry	SAL	Salinity	Salinity
General Chemistry	SCOND	Specific Conductivity at 25°C	Specific Conductivity at 25°C
General Chemistry	SSC	ASTM D3977-97 Sediment Concentration - Test Metho	Suspended Sediment Concentration
General Chemistry	SULFATE	Inorganic Anions, Ion Chromatography	Sulfate
General Chemistry	Sulfate-DIS	Inorganic Anions, Ion Chromatography	Sulfate Dissolved
General Chemistry	Sulfide	Distillation and Methylene Blue Analysis by FIA	Sulfide
General Chemistry	TC-440	Total Carbon by EPA 440 Modified	Total Carbon by EPA 440 Modified
General Chemistry	TDS	Total Dissolved Solids Dried @ 180 degress C	Total Dissolved Solids
General Chemistry	TDVS	Fixed and Volatile Solids Ignited @ 550 degrees C	Total Dissolved Volatile Solids
General Chemistry	TIC-440	Total Inorganic Carbon by EPA 440 Modified	Total Inorganic Carbon by EPA 440 Modified
General Chemistry	TN-440	Total Nitrogen by EPA 440 Modified	Total Nitrogen by EPA 440 Modified
General Chemistry	TNVS	Fixed and Volatile Solids Ignited @ 550 degrees C	Total Non-Volatile Solids
General Chemistry	TNVSS	Fixed and Volatile Solids Ignited @ 550 degrees C	Total Non-Volatile Suspended Solids
General Chemistry	TOC-0.5	Organic Carbon, High-Temperature Combustion	Total Organic Carbon
General Chemistry	TOC104	Puget Sound Estuary Protocols analysis for TOC mod	Total Organic Carbon (104 C)
General Chemistry	TOC-440	Total Organic Carbon by EPA 440 Modified	Total Organic Carbon by EPA 440 Modified
General Chemistry	TOC70	Puget Sound Estuary Protocols analysis for TOC 70	Total Organic Carbon (70 C)
General Chemistry	TOC70-S63	Puget Sound Estuary Protocols analysis for TOC 70	Total Organic Carbon (70 C) Sieved 63
General Chemistry	TOC-Cx	Organic Carbon, High-Temperature Combustion	Total Organic Carbon

Department	Analysis Code	Analysis Description	Additional Description
General Chemistry	TOC-Day60	Organic Carbon, High-Temperature Combustion	Total Organic Carbon Day 60 Reading
General Chemistry	TP8-H	Total Phosphorous-Manual Digestion-Ascorbic Acid	Total Phosphorus as P
General Chemistry	TPLL	Total Phosphorus as P Low-Level	Total Phosphorus as P Low-Level
General Chemistry	TPN	TPN, in-line digestion - modified	Total Persulfate Nitrogen as N
General Chemistry	TRP	Flow Injection Analysis for P	Total Reactive Phosphorus
General Chemistry	TS	Total Solids Dried @ 103 - 105 degrees C	Total Solids dried at 104 degrees C
General Chemistry	TSS	Total Suspended Solids Dried @ 103 -105 degrees C	Total Suspended Solids
General Chemistry	TURB	Turbidity, Nephelometric	Turbidity of water
General Chemistry	TVS	Fixed and Volatile Solids Ignited @ 550 degrees C	Total Volatile Solids
General Chemistry	TVSS	Fixed and Volatile Solids Ignited @ 550 degrees C	Total Volatile Suspended Solids
General Chemistry	UCBOD	Ultimate Carbonaceous Biochemical Oxygen Demand	Ultimate Carbonaceous Biochemical Oxygen Demand
General Chemistry	UCBOD-DIS	Ultimate Carbonaceous BOD Dissolved	Ultimate Carbonaceous BOD Dissolved
Metals	14129	air filter lead	Lead Analysis on Air Filter
Metals	AG	Determination of Trace Elements by ICPMS	Silver
Metals	Ag-6010D	Silver by SW6010D	Silver
Metals	Ag-6020B	Determination of Trace Elements	Silver
Metals	AG-DIS	Determination of Trace Elements by ICPMS	Silver, Dissolved
Metals	AG-DIS-ICP	Determination of Trace Elements by ICP-OES	Silver, Dissolved
Metals	AG-TCLP	TCLP/ICP	Silver, TCLP
Metals	AL	Determination of Metals and Trace Elements in Wate	Aluminum
Metals	Al-6010D	Determination of Metals and Trace Elements	Aluminum
Metals	Al-6020B	Determination of Metals and Trace Elements	Aluminum
Metals	AL-DIS	Determination of Metals and Trace Elements	Aluminum, Dissolved
Metals	Al-ICPMS	Determination of Metals and Trace Elements in Wate	Aluminum
Metals	AS	Determination of Trace Elements by ICPMS	Arsenic



Department	Analysis Code	Analysis Description	Additional Description
Metals	As-6010D	Arsenic by SW6010	Arsenic
Metals	As-6020B	Arsenic from complete digestion ICP/MS	Arsenic
Metals	AS-DIS	Determination of Trace Elements in Water or Wastes	Arsenic, Dissolved
Metals	AS-DIS-ICP	Determination of Trace Elements in Water or Wastes	Arsenic, Dissolved
Metals	As-DW	Determination of Trace Elements by ICPMS	Arsenic in Drinking Water
Metals	AS-SPLP	Determination of Trace Elements by ICPMS	Arsenic - SPLP
Metals	AS-TCLP	TCLP/ICP	Arsenic, TCLP
Metals	AU	Determination of Trace Elements in Water or Wastes	Gold
Metals	AU-DIS	Determination of Trace Elements in Water or Wastes	Gold, Dissolved
Metals	Au-Ionic	Ionic Native Concentration of Gold	Ionic Native Concentration of Gold
Metals	Au-Nano	Determination of Gold Nano Particles	Gold nanoparticles ug/L
Metals	Au-Nano AVP	Determination of Gold Nano Avg Particle Size	Gold nanoparticles Avg Particle Size
Metals	Au-Nano P/L	Determination of Gold Nano Particles/L	Gold nanoparticles Particles per Liter
Metals	Au-Nano PSD	Determination Gold Nano Particle Size Distribution	Gold nanoparticles Particle Size Distribution
Metals	B	Determination of Metals and Trace Elements in Wate	Boron
Metals	B-6020B	Determination of Metals and Trace Elements	Boron
Metals	BA	Determination of Metals and Trace Elements in Wate	Barium
Metals	Ba-6010D	Barium by SW6010	Barium
Metals	Ba-6020B	Determination of Trace Elements	Barium
Metals	BA-DIS	Determination of Metals and Trace Elements in Wate	Barium, Dissolved
Metals	BA-DIS-ICP	Determination of Metals and Trace Elements in Wate	Barium, Dissolved
Metals	BA-TCLP	TCLP/ICP	Barium, TCLP
Metals	B-DIS	Determination of Metals and Trace Elements	Boron, Dissolved
Metals	BE	Determination of Metals and Trace Elements in Wate	Beryllium
Metals	Be-6020B	Determination of Metals and Trace Elements	Beryllium

Department	Analysis Code	Analysis Description	Additional Description
Metals	BE-DIS	Determination of Metals and Trace Elements in Wate	Beryllium, Dissolved
Metals	B-ICPMS	Determination of Metals and Trace Elements in Wate	Boron
Metals	CA	Determination of Metals and Trace Elements	Calcium
Metals	Ca-6010D	Determination of Metals and Trace Elements	Calcium
Metals	Ca-6020B	Determination of Metals and Trace Elements	Calcium
Metals	CA-DIS	Determination of Metals and Trace Elements	Calcium, Dissolved
Metals	CA-ICPMS	Determination of Metals and Trace Elements	Calcium
Metals	CD	Determination of Trace Elements by ICPMS	Cadmium
Metals	Cd-6010D	Cadmium by SW6010D	Cadmium
Metals	CD-6020B	Cadmium from complete digestion ICP/MS	Cadmium
Metals	CD-DIS	Determination of Trace Elements by ICPMS	Cadmium, Dissolved
Metals	CD-DIS-ICP	Determination of Trace Elements by ICPMS	Cadmium, Dissolved
Metals	Cd-SPLP	Determination of Trace Elements by ICPMS	Cadmium - SPLP
Metals	CD-TCLP	TCLP/ICP	Cadmium, TCLP
Metals	CO	Determination of Metals and Trace Elements in Wate	Cobalt
Metals	Co-6020B	Cobalt from complete digestion using ICP/MS	Cobalt
Metals	CO-DIS	Determination of Trace Elements in Water or Wastes	Cobalt, Dissolved
Metals	CO-DIS-ICP	Determination of Metals and Trace Elements in Wate	Dissolved Cobalt
Metals	ConProducts-Metals VG	Consumer Products Metals	Consumer Products Metals
Metals	ConsProducts_VG_N W	Metals analysis on products	Metals analysis on products
Metals	CR	Determination of Trace Elements by ICPMS	Chromium
Metals	Cr-6010D	Chromium by SW6010	Chromium
Metals	Cr-6020B	ICP/MS general method (SW846)	Chromium
Metals	CR-DIS	Determination of Trace Elements by ICPMS	Chromium, Dissolved

Department	Analysis Code	Analysis Description	Additional Description
Metals	CR-DIS-ICP	Determination of Metals and Trace Elements in Wate	Dissolved Chromium
Metals	CR-ICP	Determination of Metals & Trace Elements by ICPOES	Chromium, total_ICP
Metals	CR-TCLP	TCLP/ICP	Chromium, TCLP
Metals	CU	Determination of Trace Elements by ICPMS	Copper
Metals	Cu-1640	ICP/MS general method (SW846)	Copper
Metals	Cu-1640-DIS	ICP/MS general method (SW846)	Copper, Dissolved
Metals	Cu-6010D	Copper by SW6010D	Copper
Metals	Cu-6020B	ICP/MS general method (SW846)	Copper
Metals	CU-DIS	Determination of Trace Elements in Water or Wastes	Copper, Dissolved
Metals	CU-DIS-ICP	Determination of Trace Elements in Water or Wastes	Copper, Dissolved
Metals	CU-ICP	Determination of Trace Elements by ICPOES	Copper, total_ICP
Metals	Cu-SPLP	Determination of Trace Elements by ICPMS	Copper - SPLP
Metals	EC	Thermal Optical Transmittance Proceedure	Elemental Carbon
Metals	FE	Determination of Metals and Trace Elements	Iron
Metals	Fe-6010D	Determination of Metals and Trace Elements	Iron
Metals	Fe-6020B	Determination of Iron by ICPMS	Iron
Metals	FE-DIS	Determination of Metals and Trace Elements	Iron, Dissolved
Metals	Fe-ICPMS	Determination of Iron by ICPMS	Iron
Metals	HARD	Hardness, Total (as CaCO3), Calculated	Hardness
Metals	Hard-200.8	Hardness, Total (as CaCO3), Calculated	Hardness
Metals	HARD-DIS	Hardness, Total (as CaCO3), Calculated	Hardness, Dissolved
Metals	HG	Mercury by CVAA	Mercury
Metals	HG-1631	Mercury by CVAFS	Mercury
Metals	HG-1631E-DIS	Mercury	Mercury 1631 Dissolved
Metals	Hg-200.8	Determination of Trace Elements by ICPMS	Mercury by 200.8

Department	Analysis Code	Analysis Description	Additional Description
Metals	Hg-6020B	Mercury by complete digestion	Mercury
Metals	HG-7470	Mercury by 7470	Mercury
Metals	Hg-7471B	Mercury by 7471B	Mercury
Metals	HG-DIS	Mercury Cold Vapor Manual	Mercury, Dissolved
Metals	HG-LL	Mercury by CVAA	Mercury
Metals	HG-LL-DIS	Mercury Cold Vapor Manual	Mercury, Dissolved
Metals	HG-TCLP	TCLP for Mercury	Mercury, TCLP
Metals	K	Determination of Metals and Trace Elements	Potassium
Metals	K-6010D	Determination of Metals and Trace Elements	Potassium
Metals	K-6020B	Determination of Metals and Trace Elements	Potassium
Metals	K-DIS	Determination of Metals and Trace Elements	Potassium, Dissolved
Metals	K-ICPMS	Determination of Metals and Trace Elements	Potassium
Metals	MG	Determination of Metals and Trace Elements	Magnesium
Metals	Mg-6010D	Determination of Metals and Trace Elements	Magnesium
Metals	Mg-6020B	Determination of Metals and Trace Elements	Magnesium
Metals	MG-DIS	Determination of Metals and Trace Elements	Magnesium, Dissolved
Metals	MG-ICPMS	Determination of Metals and Trace Elements	Magnesium
Metals	MN	Determination of Trace Elements	Manganese
Metals	Mn-6020B	Determination of Trace Elements	Manganese
Metals	MN-DIS	Determination of Trace Elements	Manganese, Dissolved
Metals	Mn-ICPMS	Determination of Metals and Trace Elements in Wate	Manganese
Metals	MO	Determination of Metals and Trace Elements in Wate	Molybdenum
Metals	Mo-6020B	Molybdenum from complete digestion ICP/MS	Molybdenum
Metals	MO-DIS	Determination of Metals and Trace Elements in Wate	Molybdenum, Dissolved
Metals	MO-ICP-DIS	Determination of Metals and Trace Elements in Wate	Dissolved Molybdenum

Department	Analysis Code	Analysis Description	Additional Description
Metals	MT-1311	TCLP/ICP	TCLP Leach
Metals	Na-6010D	Determination of Metals and Trace Elements	Sodium
Metals	Na-6020B	Determination of Metals and Trace Elements	Sodium
Metals	NA-DIS	Determination of Metals and Trace Elements	Sodium, Dissolved
Metals	NA-ICPMS	Determination of Metals and Trace Elements	Sodium
Metals	NI	Determination of Trace Elements by ICPMS	Nickel
Metals	Ni-6010D	Nickel by SW6010	Nickel
Metals	Ni-6020B	Nickel from complete digestion IC/MS	Nickel
Metals	NI-DIS	Determination of Metals and Trace Elements in Wate	Nickel, Dissolved
Metals	NI-DIS-ICP	Determination of Metals and Trace Elements in Wate	Nickel, Dissolved
Metals	NI-ICP	Determination of Trace Elements by ICPOES	Nickel, total_ICP
Metals	P-6010D	Phosphorus by SW6010	Phosphorus by SW6010
Metals	P-6020B	Determination of Trace Elements	Phosphorus
Metals	P-6020-DTSC	Determination of Trace Elements	Phosphorus
Metals	PB	Determination of Trace Elements by ICPMS	Lead
Metals	Pb-1640	ICP/MS general method (SW846)	Lead
Metals	Pb-1640-DIS	ICP/MS general method (SW846)	Lead, Dissolved
Metals	Pb-6010D	Lead by SW6010D	Lead
Metals	Pb-6020B	Lead from complete digestion ICP/MS	Lead
Metals	PB-DIS	Lead Dissolved	Lead, Dissolved
Metals	PB-DIS-ICP	Lead Dissolved	Lead, Dissolved
Metals	Pb-DW	Determination of Trace Elements by ICPMS	Lead in Drinking Water
Metals	PB-ICP	Determination of Trace Elements by ICP	Lead, total_ICPOES
Metals	Pb-SPLP	Determination of Trace Elements by ICPMS	Lead - SPLP
Metals	PB-TCLP	TCLP/ICP	Lead, TCLP

Department	Analysis Code	Analysis Description	Additional Description
Metals	P-DIS	Determination of Metals and Trace Elements in Wate	Phosphorous, Dissolved
Metals	SB	Determination of Metals and Trace Elements in Wate	Antimony
Metals	Sb-6020B	Antimony from complete digestion ICP/MS	Antimony
Metals	SB-DIS	Determination of Metals and Trace Elements in Wate	Antimony, Dissolved
Metals	SB-DIS-ICP	Determination of Metals and Trace Elements in Wate	Antimony, Dissolved
Metals	SB-ICP	Determination of Metals & Trace Elements by ICPOES	Antimony, total_ICP
Metals	SE	Determination of Metals and Trace Elements in Wate	Selenium
Metals	Se-6010D	Selenium by SW6010	Selenium
Metals	Se-6020B	ICP/MS general method (SW846)	Selenium
Metals	SE-DIS	Determination of Trace Elements in Water or Wastes	Selenium, Dissolved
Metals	SE-DIS-ICP	Determination of Trace Elements in Water or Wastes	Selenium, Dissolved
Metals	SE-TCLP	TCLP/ICP	Selenium, TCLP
Metals	SI	Determination of Metals and Trace Elements	Silicon
Metals	Si-200.8	Determination of Metals and Trace Elements	Silicon
Metals	Si-Amb	Determination of Metals and Trace Elements	Silicon
Metals	SI-DIS	Determination of Metals and Trace Elements	Silicon, Dissolved
Metals	SiO2	Determination of Metals and Trace Elements in Wate	Silica
Metals	SiO2-Dis	Determination of Metals and Trace Elements in Wate	Silica, Dissolved
Metals	SiO2-ICPMS-D	Determination of Metals and Trace Elements in Wate	Silica, Dissolved
Metals	SiO2-old	Determination of Metals and Trace Elements in Wate	Silica
Metals	SN	Determination of Metals and Trace Elements in Wate	Tin
Metals	Sn-6020B	Determination of Metals and Trace Elements	Tin
Metals	SN-DIS	Determination of Metals and Trace Elements in Wate	Tin, Dissolved
Metals	Sodium	Determination of Metals and Trace Elements	Sodium
Metals	SPLP-1312	SPLP - Organics and/or Inorganics	SPLP Leach Modified

Department	Analysis Code	Analysis Description	Additional Description
Metals	SR	Determination of Trace Elements in Water or Wastes	Strontium
Metals	Sr-6020B	Determination of Trace Elements in Water or Wastes	Strontium
Metals	SR-DIS	Determination of Metals and Trace Elements in Wate	Strontium, Dissolved
Metals	TI	Determination of Metals and Trace Elements in Wate	Titanium
Metals	Ti-6020B	Determination of Metals and Trace Elements	Titanium
Metals	TI-DIS	Determination of Metals and Trace Elements in Wate	Titanium, Dissolved
Metals	TL	Determination of Trace Elements in Water or Wastes	Thallium
Metals	TL-6020B	Thallium Determination ICPMS	Thallium
Metals	TL-DIS	Determination of Trace Elements in Water or Wastes	Thallium, Dissolved
Metals	TL-TCLP	TCLP/ICP	Thallium from TCLP
Metals	TP-6020B	Determination of Trace Elements	Total Phosphorus
Metals	U-DIS	Determination of Trace Elements in Water or Wastes	Uranium, Dissolved
Metals	V	Determination of Metals and Trace Elements in Wate	Vanadium
Metals	V-6020B	Determination of Metals and Trace Elements in Wate	Vanadium
Metals	V-DIS	Determination of Metals and Trace Elements in Wate	Vanadium, Dissolved
Metals	V-ICP-DIS	Determination of Metals and Trace Elements in Wate	Dissolved Vanadium
Metals	ZN	Determination of Trace Elements by ICPMS	Zinc
Metals	Zn-1640	ICP/MS general method (SW846)	Zinc
Metals	Zn-1640-DIS	ICP/MS general method (SW846)	Zinc, Dissolved
Metals	ZN-6010D	Zinc by SW6010	Zinc
Metals	Zn-6020B	ICP/MS general method (SW846)	Zinc
Metals	ZN-DIS	Determination of Trace Elements by ICPMS	Zinc, Dissolved
Metals	ZN-DIS-ICP	Determination of Trace Elements by ICPMS	Zinc, Dissolved
Metals	ZN-ICP	Determination of total Trace Elements by ICPOES	Zinc, totals_ICP
Metals	Zn-SPLP	Determination of Trace Elements by ICPMS	Zinc - SPLP

Department	Analysis Code	Analysis Description	Additional Description
Metals	ZN-TCLP	TCLP/ICP	Zinc, From TCLP
Micro	BACTID	Bacterial Identification using API 20E Strips	Bacterial Identification
Micro	CLOST	Info. Collection Rule EPA Clostridium Perfringes	Clostridium perfringes
Micro	E-CLERT	Examination for MPN micro-organisms	Ecoli: Most Probable Number - Colilert
Micro	ECMF	E. coli using Nutrient Agar with MUG	E._coli by the Membrane Filter method
Micro	ECMF-mTEC2	E. coli using Nutrient Agar with mTEC2	E._coli by the Membrane Filter method
Micro	ECMPN	Test Method for E. coli using EC Medium with MUG	E._coli by the Most Probable Number
Micro	ENTMF	Enterococci Membrane Filter Test in Water	Enterococci: Membrane Filter method
Micro	ENTMPN	Examination of tissue for MPN micro-organisms	Enterococci: Most Probable Number method
Micro	FCES	Fecal Coliform Enzyme Substrate	Fecal Coliform Enzyme Substrate
Micro	FCMF	Fecal Coliform Membrane Filter	Fecal Coliforms: Membrane Filter method
Micro	FCMPN	Fecal Coliform in Water by Most Probable Number	Fecal Coliforms: Most Probable Number method
Micro	FSMF	Fecal Strep & Enterococci Membrane Filter	Fecal Streptococcus by the Membrane Filter method
Micro	HPC	Heterotropic Plate Count (HPC)	Heterotropic Plate Count (HPC)
Micro	KLEB	% Klebsiella, Enterobacter, Serratia (Manchester)	% Klebsiella Enterobacter Serratia
Micro	TC-CLERT	Total Coliform: Colilert	Total Coliform: Colilert
Micro	TCMF	Total Coliform Membrane Filter	Total Coliform: Membrane Filter method
Organics	BNA	Semivolatile Organics by GC/MS	Base/Neutral/Acids
Organics	BNA-SPE	Semivolatile Organics by GC/MS	Base/Neutral/Acids
Organics	BTEX	BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
Organics	CARBAMQ3DI	Carbamate Pesticides by LCMSMS	Carbamate Pesticides low level Triple Quad
Organics	Cryomilled	CPSC-CH-C1001-09.3	Cryomilled Sample
Organics	ETHGLY	Ethylene Glycol	Ethylene Glycol
Organics	FLAME	Flame Retardants by GC/MS	PBDEs & Flame Retardants
Organics	Flame GCQ3i	Halogenated Flame Retardants GCMSMS	Halogenated Flame Retardants GCMSMS



Department	Analysis Code	Analysis Description	Additional Description
Organics	Flame LCQ3i	Organophosphorous Flame Retardants by LCQ3	OPFRs by LCQ3
Organics	FlameQ3	Flame Retardants by LCMSMS	Flame Retardants by LCMSMS
Organics	Formaldehyde	Formaldehyde by GC/MS	Formaldehyde
Organics	GLYPHOS	Glyphosate	Glyphosate
Organics	HCID	Hydrocarbon Identification Qualitative	Hydrocarbon Identification
Organics	HERBS	Herbicides by GC/MS	Chlorophenoxy Herbicides by Method 8270E
Organics	LIPIDS	Lipids	Percent Lipids
Organics	PAH	Semivolatile Organics by GC/MS	Polyaromatic Hydrocarbons (PAHs)
Organics	PAH-phthal	Semivolatile Organics	PAH SIM & Phthalates
Organics	PAH-phthalNOAA	Semivolatile Organics by GC/MS	PAHs NOAA list & Phthalates
Organics	PAH-phthal-SPLP	Semivolatile Organics	PAH SIM & Phthalates - SPLP
Organics	PAH-SIM	Semivolatile Organics by GC/MS	PAHs SIM
Organics	PBDE	Semivolatile Organics by GC/MS	Polybrominated diphenyl ethers
Organics	PBDENOA	Semivolatile Organics	PBDE
Organics	PBDE-SB	Semivolatile Organics	PBDE
Organics	PBDE-SPLP	Semivolatile Organics by GC/MS	Polybrominated diphenyl ethers
Organics	PCB	Polychlorinated Biphenyls	Polychlorinated Biphenyls
Organics	PCBCongNOAA	Polychlorinated Biphenyls Aroclors and Congeners	PCB Aroclors and Congeners NOAA list
Organics	PCB-SPE	Polychlorinated Biphenyls	Polychlorinated Biphenyls
Organics	PEST2PCB	Chlorinated Pesticides & Polychlorinated Biphenyls	Organochlorine Pesticides with PCBs
Organics	PestLL	Chlorinated Pesticides	Organochlorine Pesticides - LVI
Organics	PESTMSQ3	Pesticides by GCMSMS	Pesticides by GCMSMS
Organics	PFAS	Per- and polyfluoroalkyl substances by LCMSMS	PFAS
Organics	PFAS (Anions)	Per- and polyfluoroalkyl substances by LCMSMS	PFAS
Organics	Phthal	Phthalates by GC/MS SIM	Base/Neutral/Acids

Department	Analysis Code	Analysis Description	Additional Description
Organics	Phthalates	Phthalates by GC/MS	Base/Neutral/Acids
Organics	PreTreat	Lab pretreatment of consumer products	PreTreat
Organics	QTOF	Unknowns by GCQTOF	Unknowns by GCMS Time of Flight
Organics	TPHD	Semivolatile Petroleum Products	Semi-volatile petroleum products
Organics	TPHD-SB	Semivolatile Petroleum Products Method for Soil an	Semi-volatile petroleum products
Organics	TPHG	Volatile Petroleum Products	Volatile petroleum products
Organics	VOA	Volatile Organics Analysis	Volatile Organics Analysis
Organics	VOA (Med)	Volatile Organics	Volatile Organic Analysis
Organics	VOASIM	Volatile Organics Analysis (SIM)	Volatile Organics Analysis (SIM)

## Document Revision History

Revision Date	Revision No.	Summary of Changes	Reviser(s)
7/1/2002	1.0	Original document.	CN, SM
10/26/2017	2.0	Updated MEL Analysis Code list.	CN
06/15/2021	3.0	Transformed to Word for accessibility; renumbered columns (because first column of EDD, batch status, was eliminated); removed MEL Date Analyzed (same as Lab Analysis Date Result template), added MEL Work ID (BZ); updated MEL Analysis Code list.	CN
12/08/2022	3.1	Added new column (CA) for MEL QC Code. Updated document title to "EIM Help – Manchester Lab LIMS QC Fields."	CN
6/28/2023	4.0	Renumbered columns to accommodate 4 new PCB-related fields in the Results portion of the template. Removed MEL Batch ID field and moved it to column BK (Lab Batch ID) of Results Template. Changed MEL QC Code to MEL QC Name (column CD) and added field metadata. MEL EIM External EDD and LIMS feed now match. Updated to current EIM format.	CN