UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region III Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Final Analytical Report

Site Name.....	FORMER FEDERAL-MOGUL SITE
Sample Collection Date(s).....	1/16/2020 - 1/16/2020
Contact.....	Dominic Ventura
Report Date.....	02/18/2020 16:49
Project #.....	DAS R35734
Work Order.....	2001011

Analyses included in this report:

Total Mercury by CLP Equivalent
Total Metals by CLP Equivalent (ICPMS)
Total Metals by CLP Equivalent (ICP)

Approved for Release

Region III Laboratory Representative

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
FFM-011620-WS-01-PRE	2001011-01	Drinking Water	01/16/2020 9:52	01/17/2020 10:10
FFM-011620-WS-02-POST	2001011-02	Drinking Water	01/16/2020 9:55	01/17/2020 10:10
FFM-011620-WS-02-POST-D	2001011-03	Drinking Water	01/16/2020 9:56	01/17/2020 10:10

USEPA CLP COC (LAB COPY)

DateShipped: 1/16/2020
CarrierName: FedEx
AirbillNo: 777502082706

CHAIN OF CUSTODY RECORD

DAS #: R35734
Cooler #: 1 of 1

No: 3-011620-163353-0004

Lab: USEPA Region III Lab Fort Meade
Lab Contact: Kevin Poff
Lab Phone: 410-305-2938

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
FFM-011620-WS-01-PRE	MC0AC0	Drinking Water/ START	Grab	ICP-MS(21)	1020 (HNO3 pH<2) (1)	MW-03	01/16/2020 09:52	2001011-01
FFM-011620-WS-02-POST	MC0AC1	Drinking Water/ START	Grab	ICP-MS(21)	1025 (HNO3 pH<2), 1026 (HNO3 pH<2) (2)	MW-03	01/16/2020 09:55	-02
FFM-011620-WS-02-POST-D	MC0AC2	Drinking Water/ START	Grab	ICP-MS(21)	1030 (HNO3 pH<2) (1)	MW-03	01/16/2020 09:56	-03

Nonresponsive based on revised scope

Sample(s) to be used for Lab QC: FFM-011620-WS-02-POST Tag 1026

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals and CLP Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples for Analysis	Nonresponsive based on revised scope / Western Solutions	1/16/20 1800	Matt Cooke / ESAT	1/17/20 / 10:10	2.5°C / pH=3 / MC 1/17/20

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	2001011-01							
Station ID:	FFM-011620-WS-01-PRE							
Sample Matrix:	Drinking Water							
Collected:	01/16/2020							
Aluminum	U		20.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Antimony	U		2.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Arsenic	**1.0**		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Barium	U		10.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Beryllium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Cadmium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Calcium	**35200**		500	ug/L	1	01/21/20	01/23/2020 13:59	R3QA155/R3QA159
Chromium	U		2.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Cobalt	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Copper	**5.8**		2.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Iron	U		100	ug/L	1	01/21/20	01/23/2020 13:59	R3QA155/R3QA159
Lead	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Magnesium	**2380**		500	ug/L	1	01/21/20	01/23/2020 13:59	R3QA155/R3QA159
Manganese	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Mercury	U		0.2	ug/L	1	01/27/20	01/28/2020 10:40	R3QA131
Nickel	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Potassium	U		500	ug/L	1	01/21/20	01/23/2020 13:59	R3QA155/R3QA159
Selenium	U		5.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Silver	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Sodium	**12000**		500	ug/L	1	01/21/20	01/23/2020 13:59	R3QA155/R3QA159

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	2001011-01							
Station ID:	FFM-011620-WS-01-PRE							
Sample Matrix:	Drinking Water							
Collected:	01/16/2020							
Thallium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Vanadium	U		5.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116
Zinc	**2.3**		2.0	ug/L	2.5	01/21/20	01/22/2020 11:08	R3QA155/R3QA116

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	2001011-02							
Station ID:	FFM-011620-WS-02-POST							
Sample Matrix:	Drinking Water							
Collected:	01/16/2020							
Aluminum	U		20.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Antimony	U		2.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Arsenic	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Barium	U		10.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Beryllium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Cadmium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Calcium	**40600**		500	ug/L	1	01/21/20	01/23/2020 14:07	R3QA155/R3QA159
Chromium	U		2.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Cobalt	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Copper	**8.5**		2.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Iron	U		100	ug/L	1	01/21/20	01/23/2020 14:07	R3QA155/R3QA159
Lead	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Magnesium	**2480**		500	ug/L	1	01/21/20	01/23/2020 14:07	R3QA155/R3QA159
Manganese	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Mercury	U		0.2	ug/L	1	01/27/20	01/28/2020 10:42	R3QA131
Nickel	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Potassium	U		500	ug/L	1	01/21/20	01/23/2020 14:07	R3QA155/R3QA159
Selenium	U		5.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Silver	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Sodium	**11900**		500	ug/L	1	01/21/20	01/23/2020 14:07	R3QA155/R3QA159
Thallium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	2001011-02							
Station ID:	FFM-011620-WS-02-POST							
Sample Matrix:	Drinking Water							
Collected:	01/16/2020							
Vanadium	U		5.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116
Zinc	**4.3**		2.0	ug/L	2.5	01/21/20	01/22/2020 11:16	R3QA155/R3QA116

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	2001011-03							
Station ID:	FFM-011620-WS-02-POST-D							
Sample Matrix:	Drinking Water							
Collected:	01/16/2020							
Aluminum	U		20.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Antimony	U		2.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Arsenic	**1.3**		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Barium	U		10.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Beryllium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Cadmium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Calcium	**40100**		500	ug/L	1	01/21/20	01/23/2020 14:15	R3QA155/R3QA159
Chromium	U		2.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Cobalt	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Copper	**6.0**		2.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Iron	U		100	ug/L	1	01/21/20	01/23/2020 14:15	R3QA155/R3QA159
Lead	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Magnesium	**2470**		500	ug/L	1	01/21/20	01/23/2020 14:15	R3QA155/R3QA159
Manganese	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Mercury	U		0.2	ug/L	1	01/27/20	01/28/2020 10:48	R3QA131
Nickel	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Potassium	U		500	ug/L	1	01/21/20	01/23/2020 14:15	R3QA155/R3QA159
Selenium	U		5.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Silver	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Sodium	**11800**		500	ug/L	1	01/21/20	01/23/2020 14:15	R3QA155/R3QA159
Thallium	U		1.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	2001011-03							
Station ID:	FFM-011620-WS-02-POST-D							
Sample Matrix:	Drinking Water							
Collected:	01/16/2020							
Vanadium	U		5.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116
Zinc	**3.1**		2.0	ug/L	2.5	01/21/20	01/22/2020 11:25	R3QA155/R3QA116

Site Name: **FORMER FEDERAL-MOGUL SITE** **Project #: DAS R35734**

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BA02105 - Metals Water Prep										
Blank (BA02105-BLK1)				Prepared: 01/21/2020 07:58	Analyzed: 01/22/2020 09:57					
Antimony	U	2.0	ug/L							
Arsenic	U	1.0	"							
Barium	U	10.0	"							
Beryllium	U	1.0	"							
Cadmium	U	1.0	"							
Chromium	U	2.0	"							
Cobalt	U	1.0	"							
Copper	U	2.0	"							
Lead	U	1.0	"							
Manganese	U	1.0	"							
Nickel	U	1.0	"							
Selenium	U	5.0	"							
Silver	U	1.0	"							
Thallium	U	1.0	"							
Vanadium	U	5.0	"							
Zinc	U	2.0	"							
Aluminum	U	20.0	"							
Blank (BA02105-BLK2)				Prepared: 01/21/2020 07:58	Analyzed: 01/23/2020 12:48					
Aluminum	U	200	ug/L							
Calcium	U	500	"							
Iron	U	100	"							
Magnesium	U	500	"							
Potassium	U	500	"							
Sodium	U	500	"							
Antimony	U	60.0	"							
Arsenic	U	200	"							
Barium	U	200	"							
Beryllium	U	5.0	"							
Boron	U	50.0	"							
Cadmium	U	5.0	"							
Chromium	U	10.0	"							
Cobalt	U	50.0	"							
Copper	U	25.0	"							
Lead	U	50.0	"							
Manganese	U	15.0	"							
Nickel	U	40.0	"							
Selenium	U	200	"							
Silver	U	10.0	"							
Thallium	U	200	"							
Vanadium	U	50.0	"							
Zinc	U	20.0	"							

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QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BA02105 - Metals Water Prep										
LCS (BA02105-BS1)				Prepared: 01/21/2020 07:58			Analyzed: 01/22/2020 10:09			
Antimony	49.9	2.0	ug/L	50.000		100	85-115			
Arsenic	50.8	1.0	"	50.000		102	85-115			
Barium	195	10.0	"	200.00		98	85-115			
Beryllium	4.6	1.0	"	5.0000		93	85-115			
Cadmium	5.0	1.0	"	5.0000		100	85-115			
Chromium	52.2	2.0	"	50.000		104	85-115			
Cobalt	49.9	1.0	"	50.000		100	85-115			
Copper	48.3	2.0	"	50.000		97	85-115			
Lead	50.3	1.0	"	50.000		101	85-115			
Manganese	48.6	1.0	"	50.000		97	85-115			
Nickel	48.0	1.0	"	50.000		96	85-115			
Selenium	56.8	5.0	"	50.000		114	85-115			
Silver	4.7	1.0	"	5.0000		93	85-115			
Thallium	47.6	1.0	"	50.000		95	85-115			
Vanadium	52.6	5.0	"	50.000		105	85-115			
Zinc	51.4	2.0	"	50.000		103	85-115			
Aluminum	198	20.0	"	200.00		99	85-115			
LCS (BA02105-BS2)				Prepared: 01/21/2020 07:58			Analyzed: 01/23/2020 12:56			
Aluminum	1915.15	200	ug/L	2000.0		96	85-115			
Calcium	9547.00	500	"	10000		95	85-115			
Iron	4762.86	100	"	5000.0		95	85-115			
Magnesium	9525.30	500	"	10000		95	85-115			
Potassium	19079.2	500	"	20000		95	85-115			
Sodium	9639.34	500	"	10000		96	85-115			
Antimony	471.843	60.0	"	500.00		94	85-115			
Arsenic	481.578	200	"	500.00		96	85-115			
Barium	1960.06	200	"	2000.0		98	85-115			
Beryllium	48.9475	5.0	"	50.000		98	85-115			
Boron	477.450	50.0	"	500.00		95	85-115			
Cadmium	49.5826	5.0	"	50.000		99	85-115			
Chromium	484.895	10.0	"	500.00		97	85-115			
Cobalt	478.999	50.0	"	500.00		96	85-115			
Copper	484.820	25.0	"	500.00		97	85-115			
Lead	482.646	50.0	"	500.00		97	85-115			
Manganese	481.968	15.0	"	500.00		96	85-115			
Nickel	512.222	40.0	"	500.00		102	85-115			
Selenium	476.634	200	"	500.00		95	85-115			
Silver	48.1713	10.0	"	50.000		96	85-115			
Thallium	482.188	200	"	500.00		96	85-115			
Vanadium	494.751	50.0	"	500.00		99	85-115			
Zinc	490.229	20.0	"	500.00		98	85-115			

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QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BA02105 - Metals Water Prep										
Duplicate (BA02105-DUP3)		**Source: 2001011-01**		Prepared: 01/21/2020 07:58			Analyzed: 01/22/2020 11:12			
Antimony	U	2.0	ug/L		U				20	
Arsenic	0.9	1.0	"		1.0			9	20	
Barium	5.9	10.0	"		6.1			3	20	
Beryllium	U	1.0	"		U				20	
Cadmium	U	1.0	"		U				20	
Chromium	0.1	2.0	"		U				20	
Cobalt	U	1.0	"		U				20	
Copper	5.7	2.0	"		5.8			2	20	
Lead	0.04	1.0	"		0.04			5	20	
Manganese	0.6	1.0	"		0.7			19	20	
Nickel	0.6	1.0	"		0.6			0.3	20	
Selenium	0.3	5.0	"		U				20	
Silver	U	1.0	"		U				20	
Thallium	U	1.0	"		U				20	
Vanadium	0.5	5.0	"		0.5			7	20	
Zinc	2.4	2.0	"		2.3			5	20	
Aluminum	2.2	20.0	"		2.4			11	20	
Duplicate (BA02105-DUP4)		**Source: 2001011-01**		Prepared: 01/21/2020 07:58			Analyzed: 01/23/2020 14:03			
Calcium	34436.1	500	ug/L		35184.2			2	20	
Iron	1.76645	100	"		2.31831			27	20	D
Magnesium	2333.10	500	"		2375.68			2	20	
Potassium	350.228	500	"		365.316			4	20	
Sodium	11717.8	500	"		11999.3			2	20	
Matrix Spike (BA02105-MS3)		**Source: 2001011-02**		Prepared: 01/21/2020 07:58			Analyzed: 01/22/2020 11:20			
Antimony	51.0	2.0	ug/L	50.000	U	102	70-130			
Arsenic	52.7	1.0	"	50.000	0.8	104	70-130			
Barium	201	10.0	"	200.00	5.8	98	70-130			
Beryllium	5.1	1.0	"	5.0000	U	102	70-130			
Cadmium	5.1	1.0	"	5.0000	U	103	70-130			
Chromium	51.1	2.0	"	50.000	0.1	102	70-130			
Cobalt	48.0	1.0	"	50.000	U	96	70-130			
Copper	53.6	2.0	"	50.000	8.5	90	70-130			
Lead	48.8	1.0	"	50.000	0.1	97	70-130			
Manganese	49.5	1.0	"	50.000	0.5	98	70-130			
Nickel	47.1	1.0	"	50.000	0.7	93	70-130			
Selenium	55.1	5.0	"	50.000	0.07	110	70-130			
Silver	4.9	1.0	"	5.0000	U	97	70-130			
Thallium	45.9	1.0	"	50.000	U	92	70-130			
Vanadium	51.2	5.0	"	50.000	0.6	101	70-130			
Zinc	56.5	2.0	"	50.000	4.3	104	70-130			
Aluminum	182	20.0	"	200.00	4.3	89	70-130			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region III Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **FORMER FEDERAL-MOGUL SITE** **Project #: DAS R35734**

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BA02105 - Metals Water Prep										
Matrix Spike (BA02105-MS4)		**Source: 2001011-02**		Prepared: 01/21/2020 07:58			Analyzed: 01/23/2020 14:11			
Calcium	49779.4	500	ug/L	10000	40624.7	92	70-130			
Iron	4721.57	100	"	5000.0	17.2269	94	70-130			
Magnesium	11972.8	500	"	10000	2477.17	95	70-130			
Potassium	19616.4	500	"	20000	371.694	96	70-130			
Sodium	21426.6	500	"	10000	11867.4	96	70-130			
Batch BA02203 - Mercury 245.1/245.2/7470a Prep										
Blank (BA02203-BLK1)				Prepared: 01/27/2020 10:52			Analyzed: 01/28/2020 10:34			
Mercury	U	0.2	ug/L							
LCS (BA02203-BS1)				Prepared: 01/27/2020 10:52			Analyzed: 01/28/2020 10:36			
Mercury	1.95	0.2	ug/L	2.0000		98	85-115			
Duplicate (BA02203-DUP1)		**Source: 2001011-02**		Prepared: 01/27/2020 10:52			Analyzed: 01/28/2020 10:44			
Mercury	0.010	0.2	ug/L		0.010			0	20	
Matrix Spike (BA02203-MS1)		**Source: 2001011-02**		Prepared: 01/27/2020 10:52			Analyzed: 01/28/2020 10:46			
Mercury	1.96	0.2	ug/L	2.0000	0.010	98	70-130			

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Notes and Definitions

D	Source sample result and/or duplicate sample result are below the quantitation limit and the RPD is artificially high. Precision data (RPD value) has no significance for this QC Sample.
%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.
NR	Not Reported

QUANTITATION LIMIT: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

SOLID SAMPLE RESULTS - REPORTING PROTOCOL: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

ON-DEMAND: The term 'on-demand' analysis, if noted in the report narrative, refers to Section 13.1.4 in the Region III OASQA Laboratory Quality Manual, which provides procedures for non-routine analyses or analytes.