eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
AT-1807

Laboratory Report

for

Integral Consulting Inc.
1205 West Bay Drive NW
Victorian house on the right
Olympia, WA 98502
Attention: Craig Hutchings
Fax: 360-705-3669

Date of Issue
02/12/2016

Linda Geddes
EUROFINS EATON ANALYTICAL

LXG: Linda Geddes

Project Manager

NELAP ACCREDITED TNI LABORATORY
ORELAP 4034

Report: 569211
Project: OUTFALL_SAMPLING
Group: Long list PFCs

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** 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.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
----------	--------	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2016
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
California-Fresno- ELAP	2966	**New York ***	11320
Colorado	Certified	**North Carolina**	06701
Connecticut	PH-0107	**North Dakota**	R-009
Delaware	CA 006	**Oregon (Primary AB) ***	**ORELAP 4034**
Florida *	E871024	**Pennsylvania ***	68-565
Georgia	947	**Rhode Island**	LAO00326
Guam	15-003r	**South Carolina**	87016
Hawaii	Certified	**South Dakota**	Certified
Idaho	Certified	**Tennessee**	TN02839
Illinois *	200033	**Texas ***	T104704230-14-7
Indiana	C-CA-01	**Utah ***	CA000062015-8
Kansas *	E-10268	**Vermont**	VT0114
Kentucky	90107	**Virginia ***	460260
Louisiana *	LA16003	**Washington**	C838
Maine	CA0006	**West Virginia**	9943 C
Maryland	224	**----------**	**----------**
Commonwealth of Northern Marianas Is.	MP0004	**Wyoming**	8TMS-L
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

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
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
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	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	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	x		x
Chlorine -Total/Free/ Combined Residua	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
Cryptosporidium	EPA 1622, 1623	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
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	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

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
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	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	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 Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	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
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
Semi-VOC	EPA 625		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 (2346)	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	
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/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

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Version 001 Issued: 09/04/2015

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Acknowledgement of Samples Received

Addr: **Integral Consulting Inc.**
1205 West Bay Drive NW
Victorian house on the right
Olympia, WA 98502

Attn: Craig Hutchings
Phone: 360-705-3534 x 417

Client ID: INTEGRAL-OLYMP
Folder #: 569211
Project: OUTFALL_SAMPLING
Sample Group: Long list PFCs

Project Manager: Linda Geddes
Phone: (626) 386-1163

The following samples were received from you on **January 22, 2016** at **1200**. 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.

Sample #	Sample ID	Sample Date
201601040130	V-915	01/20/2016 1500
	Variable ID: C1165	
	@537	
201601040132	Field Blank	01/20/2016 1500
	Variable ID: C1165	
	@537 FB Freight - RUSH	

Test Description

@537 -- Perfluorinated Alkyl Acids

@537 FB -- Perfluorinated Alkyl Acids

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 www.EurofinsUS.com/Eaton

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CHAIN OF CUSTODY RECORD

J69211

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Phone: 626 386 1100
Fax: 626 386 1101
800 566 LABS (800 566 5227)
Website: www.EatonAnalytical.com

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: HG 13:08

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

☐ _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

☒ Monrovia IR Gun ID = 461 A (Observation= 2.3 °C) (Corr.Factor 0.3 °C) (Final = 2.0 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°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: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Solvay Spec. Polymers

PROJECT CODE:

COMPLIANCE SAMPLES (check for yes) ✓ - Requires state forms ☐

NON-COMPLIANCE SAMPLES (check for yes) ☐ REGULATION INVOLVED: _____ (eg. SDWA, NPDES, etc.)

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION

EEA CLIENT CODE: COC ID: SAMPLE GROUP:

SEE ATTACHED KIT ORDER FOR ANALYSES ✓ (check for yes), OR

List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	X0531											SAMPLER COMMENTS
1/20/16	1500	V-915		WW			X											Duplicate included
1/20/16	1500	Field Blank		FB			X											

6481 5469 1509

* MATRIX TYPES: RSW = Raw Surface Water, RGW = Raw Ground Water, CFW = Chlor(am)inated Finished Water, FW = Other Finished Water, SEAW = Sea Water, WW = Waste Water, BW = Bottled Water, SW = Storm Water, SO = Soil, SL = Sludge, O = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Mark Chr	Mark Christensen	Solvay / Env Mgr.	1/20/16	1500
RELINQUISHED BY:		Mark Christensen	Solvay / Env Mgr	1/21/16	1500
RECEIVED BY:		Neena Tamworawid	EEA	1.22.16	1200
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029.2 (Version 2) (08/28/2014)

PAGE ____ OF ____

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Kit Order for Integral Consulting Inc.

Linda Geddes is your Eurofins Eaton Analytical Service Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Note: Sampler Please return this paper with your samples

Kit #: 128242

Created By: Linda Geddes - [LXG]
Deliver By: 01/06/2016
STG: Bottle Orders
Ice Type: W
Pre Registered

Client ID: INTEGRAL-OLYMP
Project Code: OUTFALL_SAMPLING Bottle Orders
Group Name: Long list PFCs
PO#/JOB#:

Ship Sample Kits to
Solvay
10 Leonard Lane
West Deptford, NJ 08086

USA
Attn: Mark Christensen
Phone: 856-853-8119

Send Report to
Integral Consulting Inc.
1205 West Bay Drive NW
Victorian house on the right
Olympia, WA 98502

Attn: Craig Hutchings
Phone: 360-705-3534 x 417
Fax: 360-705-3669

Billing Address
Integral Consulting Inc
285 Century Place, Suite 190
Louisville, CO 80027

USA
Attn: Accounts Payable

# of Sample	Tests	Bottle Qty - Type [preservative information]	UN DOT #
1	@537	2 - 275 ml polypro w polypro cap [1.4 g Trisma]	
1	@537 TB Did not receive HO 1/22	2 - 275 ml polypro w polypro cap [1.4g Trisma + H2O]	
1	@537 FB Rec'l HO 1/22	2 - 275 ml polypro w polypro cap [no preservative]	

Comments

SHIP TUESDAY FOR WEDNESDAY DELIVERY
NEED TRACKING NUMBER AND COST

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

750 Royal Oaks Drive, Suite 100
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Laboratory Comments
Report: 569211

Integral Consulting Inc.
Craig Hutchings
1205 West Bay Drive NW
Victorian house on the right
Olympia, WA 98502

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

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Laboratory Hits
Report: 569211

Integral Consulting Inc.
Craig Hutchings
1205 West Bay Drive NW
Victorian house on the right
Olympia, WA 98502

Samples Received on:
01/22/2016 1200

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201601040130	**V-915**				
01/29/2016 23:30	Perfluorodecanoic acid		0.0039		ug/L	0.0025
01/29/2016 23:30	Perfluoroheptanoic acid		0.0047		ug/L	0.0025
01/29/2016 23:30	Perfluorohexanoic acid		0.0039		ug/L	0.0025
02/10/2016 04:28	Perfluorononanoic acid		0.31		ug/L	0.025
01/29/2016 23:30	Perfluorooctanesulfonic acid		0.0038		ug/L	0.0025
01/29/2016 23:30	Perfluorooctanoic acid		0.029		ug/L	0.0025
01/29/2016 23:30	Perfluoroundecanoic acid		0.014		ug/L	0.0025

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 569211

Integral Consulting Inc.
Craig Hutchings
1205 West Bay Drive NW
Victorian house on the right
Olympia, WA 98502

Samples Received on:
01/22/2016 1200

V-915 (201601040130) **Sampled on 01/20/2016 1500**

Variable ID: C1165

EPA 537 - Perfluorinated Alkyl Acids

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.00073	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorodecanoic acid	0.0039	ug/L	0.00028	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.00064	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluoroheptanoic acid	0.0047	ug/L	0.00036	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorohexanesulfonic acid	0.00080J	ug/L	0.00046	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorohexanoic acid	0.0039	ug/L	0.00039	0.0025	1
1/25/2016	02/10/2016 04:28	889909	(EPA 537)	Perfluorononanoic acid	0.31	ug/L	0.0035	0.025	10
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorooctanesulfonic acid	0.0038	ug/L	0.00020	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorooctanoic acid	0.029	ug/L	0.00023	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0014	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.00083	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	Perfluoroundecanoic acid	0.014	ug/L	0.00044	0.0025	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	13C-PFDA	92	%		130	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	13C-PFHxA	105	%		130	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	13C-PFOA	81	%		150	1
1/25/2016	01/29/2016 23:30	889630	(EPA 537)	13C-PFOS	90	%		150	1

Rounding on totals after summation.
(c) - Indicates calculated results.
ND - Analyte was not detected at the calculated MDL.
J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.

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Laboratory Data
Report: 569211

Integral Consulting Inc.
Craig Hutchings
1205 West Bay Drive NW
Victorian house on the right
Olympia, WA 98502

Samples Received on:
01/22/2016 1200

Field Blank (201601040132) **Sampled on 01/20/2016 1500**

Variable ID: C1165

EPA 537 - Perfluorinated Alkyl Acids

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.00073	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.00028	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.00064	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluoroheptanoic acid	ND	ug/L	0.00036	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorohexanesulfonic acid	ND	ug/L	0.00046	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorohexanoic acid	ND	ug/L	0.00039	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.00035	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorooctanesulfonic acid	ND	ug/L	0.00020	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorooctanoic acid	0.00032J	ug/L	0.00023	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0014	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.00083	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.00044	0.0025	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	13C-PFDA	95	%		130	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	13C-PFHxA	98	%		130	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	13C-PFOA	102	%		150	1
1/25/2016	01/29/2016 23:04	889630	(EPA 537)	13C-PFOS	103	%		150	1

Rounding on totals after summation.
(c) - Indicates calculated results.
ND - Analyte was not detected at the calculated MDL.
J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.

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Laboratory
QC Summary: 569211

Integral Consulting Inc.

QC Ref # 889630 - Perfluorinated Alkyl Acids — **Analysis Date: 01/29/2016**

201601040130	V-915	Analyzed by: LHZ
201601040132	Field Blank	Analyzed by: LHZ

QC Ref # 889909 - Perfluorinated Alkyl Acids — **Analysis Date: 02/10/2016**

201601040130	V-915	Analyzed by: 1CL

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Laboratory QC
Report: 569211

Integral Consulting Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 889630 - Perfluorinated Alkyl Acids by EPA 537						**Analysis Date: 01/29/2016**			
LCS1	13C-PFDA (S)			93.5	%	94	(70-130)		
LCS2	13C-PFDA (S)			94.1	%	94	(70-130)		
MBLK	13C-PFDA (S)			88.2	%	88	(70-130)		
MRL_CHK	13C-PFDA (S)			92.2	%	92	(70-130)		
MS_201601210640	13C-PFDA (S)			92.7	%	93	(70-130)		
MSD_201601210640	13C-PFDA (S)			93.2	%	93	(70-130)		
LCS1	13C-PFHxA (S)			97.0	%	97	(70-130)		
LCS2	13C-PFHxA (S)			97.0	%	97	(70-130)		
MBLK	13C-PFHxA (S)			93.2	%	93	(70-130)		
MRL_CHK	13C-PFHxA (S)			95.4	%	95	(70-130)		
MS_201601210640	13C-PFHxA (S)			96.2	%	96	(70-130)		
MSD_201601210640	13C-PFHxA (S)			97.4	%	97	(70-130)		
LCS1	13C-PFOA (I)			102	%	102	(50-150)		
LCS2	13C-PFOA (I)			101	%	101	(50-150)		
MBLK	13C-PFOA (I)			102	%	102	(50-150)		
MRL_CHK	13C-PFOA (I)			102	%	102	(50-150)		
MS_201601210640	13C-PFOA (I)			105	%	105	(50-150)		
MSD_201601210640	13C-PFOA (I)			104	%	104	(50-150)		
LCS1	13C-PFOS (I)			106	%	106	(50-150)		
LCS2	13C-PFOS (I)			103	%	103	(50-150)		
MBLK	13C-PFOS (I)			106	%	106	(50-150)		
MRL_CHK	13C-PFOS (I)			104	%	104	(50-150)		
MS_201601210640	13C-PFOS (I)			106	%	106	(50-150)		
MSD_201601210640	13C-PFOS (I)			103	%	103	(50-150)		
LCS1	Perfluorobutanesulfonic acid		0.022	0.0215	ug/L	97	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0217	ug/L	98	(70-130)	30	0.93
MBLK	Perfluorobutanesulfonic acid			<0.00074	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0022	0.00208	ug/L	94	(50-150)		
MS_201601210640	Perfluorobutanesulfonic acid	ND	0.0022	0.00205	ug/L	91	(50-150)		
MSD_201601210640	Perfluorobutanesulfonic acid	ND	0.0022	0.00189	ug/L	84	(50-150)	50	8.1
LCS1	Perfluorodecanoic acid		0.025	0.0249	ug/L	100	(70-130)		
LCS2	Perfluorodecanoic acid		0.025	0.0260	ug/L	104	(70-130)	30	4.3
MBLK	Perfluorodecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.0025	0.00221	ug/L	89	(50-150)		
MS_201601210640	Perfluorodecanoic acid	ND	0.0025	0.00211	ug/L	82	(50-150)		
MSD_201601210640	Perfluorodecanoic acid	ND	0.0025	0.00240	ug/L	94	(50-150)	50	13

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Laboratory QC
Report: 569211

Integral Consulting Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Perfluorododecanoic acid		0.025	0.0207	ug/L	83	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0208	ug/L	83	(70-130)	30	0.48
MBLK	Perfluorododecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.0025	0.00213	ug/L	85	(50-150)		
MS_201601210640	Perfluorododecanoic acid	ND	0.0025	0.00185	ug/L	73	(50-150)		
MSD_201601210640	Perfluorododecanoic acid	ND	0.0025	0.00190	ug/L	75	(50-150)	50	2.7
LCS1	Perfluoroheptanoic acid		0.025	0.0238	ug/L	95	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0249	ug/L	100	(70-130)	30	4.5
MBLK	Perfluoroheptanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.0025	0.00223	ug/L	89	(50-150)		
MS_201601210640	Perfluoroheptanoic acid	ND	0.0025	0.00236	ug/L	94	(50-150)		
MSD_201601210640	Perfluoroheptanoic acid	ND	0.0025	0.00238	ug/L	95	(50-150)	50	0.84
LCS1	Perfluorohexanesulfonic acid		0.024	0.0221	ug/L	93	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.024	0.0220	ug/L	93	(70-130)	30	0.45
MBLK	Perfluorohexanesulfonic acid			<0.00079	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0024	0.00207	ug/L	88	(50-150)		
MS_201601210640	Perfluorohexanesulfonic acid	ND	0.0024	0.00186	ug/L	77	(50-150)		
MSD_201601210640	Perfluorohexanesulfonic acid	ND	0.0024	0.00211	ug/L	88	(50-150)	50	13
LCS1	Perfluorohexanoic acid		0.025	0.0255	ug/L	102	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0243	ug/L	97	(70-130)	30	4.8
MBLK	Perfluorohexanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.0025	0.00244	ug/L	98	(50-150)		
MS_201601210640	Perfluorohexanoic acid	ND	0.0025	0.00243	ug/L	94	(50-150)		
MSD_201601210640	Perfluorohexanoic acid	ND	0.0025	0.00257	ug/L	100	(50-150)	50	5.6
LCS1	Perfluorononanoic acid		0.025	0.0265	ug/L	106	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0265	ug/L	106	(70-130)	30	0.0
MBLK	Perfluorononanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorononanoic acid		0.0025	0.00273	ug/L	109	(50-150)		
MS_201601210640	Perfluorononanoic acid	ND	0.0025	0.00312	ug/L	120	(50-150)		
MSD_201601210640	Perfluorononanoic acid	ND	0.0025	0.00320	ug/L	123	(50-150)	50	2.5
LCS1	Perfluorooctanesulfonic acid		0.024	0.0231	ug/L	97	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.024	0.0228	ug/L	95	(70-130)	30	1.3
MBLK	Perfluorooctanesulfonic acid			<0.0008	ug/L				
MRL_CHK	Perfluorooctanesulfonic acid		0.0024	0.00216	ug/L	90	(50-150)		
MS_201601210640	Perfluorooctanesulfonic acid	ND	0.0024	0.00185	ug/L	75	(50-150)		
MSD_201601210640	Perfluorooctanesulfonic acid	ND	0.0024	0.00209	ug/L	85	(50-150)	50	12
LCS1	Perfluorooctanoic acid		0.025	0.0268	ug/L	107	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0252	ug/L	101	(70-130)	30	6.2

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Perfluorooctanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.0025	0.00262	ug/L	105	(50-150)		
MS_201601210640	Perfluorooctanoic acid	ND	0.0025	0.00292	ug/L	77	(50-150)		
MSD_201601210640	Perfluorooctanoic acid	ND	0.0025	0.00293	ug/L	78	(50-150)	50	0.34
LCS1	Perfluorotetradecanoic acid		0.025	0.0216	ug/L	87	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0213	ug/L	85	(70-130)	30	1.4
MBLK	Perfluorotetradecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.0025	0.00223	ug/L	89	(50-150)		
MS_201601210640	Perfluorotetradecanoic acid	ND	0.0025	0.00213	ug/L	85	(50-150)		
MSD_201601210640	Perfluorotetradecanoic acid	ND	0.0025	0.00202	ug/L	81	(50-150)	50	4.8
LCS1	Perfluorotridecanoic acid		0.025	0.0200	ug/L	80	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0180	ug/L	72	(70-130)	30	11
MBLK	Perfluorotridecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.0025	0.00198	ug/L	79	(50-150)		
MS_201601210640	Perfluorotridecanoic acid	ND	0.0025	0.00191	ug/L	76	(50-150)		
MSD_201601210640	Perfluorotridecanoic acid	ND	0.0025	0.00182	ug/L	73	(50-150)	50	4.8
LCS1	Perfluoroundecanoic acid		0.025	0.0239	ug/L	96	(70-130)		
LCS2	Perfluoroundecanoic acid		0.025	0.0245	ug/L	98	(70-130)	30	2.5
MBLK	Perfluoroundecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.0025	0.00208	ug/L	83	(50-150)		
MS_201601210640	Perfluoroundecanoic acid	ND	0.0025	0.00232	ug/L	92	(50-150)		
MSD_201601210640	Perfluoroundecanoic acid	ND	0.0025	0.00207	ug/L	82	(50-150)	50	11

QC Ref# 889909 - Perfluorinated Alkyl Acids by EPA 537 **Analysis Date: 02/10/2016**

LCS1	13C-PFDA (S)			121	%	121	(70-130)		
LCS2	13C-PFDA (S)			120	%	120	(70-130)		
MBLK	13C-PFDA (S)			116	%	116	(70-130)		
MRL_CHK	13C-PFDA (S)			116	%	116	(70-130)		
MS1_201602030242	13C-PFDA (S)			124	%	124	(70-130)		
MSD1_201602030242	13C-PFDA (S)			127	%	127	(70-130)		
LCS1	13C-PFHxA (S)			118	%	119	(70-130)		
LCS2	13C-PFHxA (S)			116	%	116	(70-130)		
MBLK	13C-PFHxA (S)			119	%	119	(70-130)		
MRL_CHK	13C-PFHxA (S)			115	%	115	(70-130)		
MS1_201602030242	13C-PFHxA (S)			115	%	115	(70-130)		
MSD1_201602030242	13C-PFHxA (S)			109	%	109	(70-130)		
LCS1	13C-PFOA (I)			103	%	103	(50-150)		
LCS2	13C-PFOA (I)			106	%	106	(50-150)		
MBLK	13C-PFOA (I)			98.9	%	99	(50-150)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	13C-PFOA (I)			104	%	104	(50-150)		
MS1_201602030242	13C-PFOA (I)			103	%	103	(50-150)		
MSD1_201602030242	13C-PFOA (I)			103	%	103	(50-150)		
LCS1	13C-PFOS (I)			93.2	%	93	(50-150)		
LCS2	13C-PFOS (I)			98.8	%	99	(50-150)		
MBLK	13C-PFOS (I)			91.1	%	91	(50-150)		
MRL_CHK	13C-PFOS (I)			94.4	%	94	(50-150)		
MS1_201602030242	13C-PFOS (I)			98.0	%	98	(50-150)		
MSD1_201602030242	13C-PFOS (I)			96.8	%	97	(50-150)		
LCS1	Perfluorobutanesulfonic acid		0.022	0.0244	ug/L	110	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0236	ug/L	106	(70-130)	30	3.3
MBLK	Perfluorobutanesulfonic acid			<0.00074	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0022	0.00242	ug/L	109	(50-150)		
MS1_201602030242	Perfluorobutanesulfonic acid	ND	0.022	0.0234	ug/L	104	(70-130)		
MSD1_201602030242	Perfluorobutanesulfonic acid	ND	0.022	0.0229	ug/L	102	(70-130)	30	2.2
LCS1	Perfluorodecanoic acid		0.025	0.0258	ug/L	103	(70-130)		
LCS2	Perfluorodecanoic acid		0.025	0.0241	ug/L	97	(70-130)	30	6.8
MBLK	Perfluorodecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.0025	0.00254	ug/L	102	(50-150)		
MS1_201602030242	Perfluorodecanoic acid	ND	0.025	0.0236	ug/L	94	(70-130)		
MSD1_201602030242	Perfluorodecanoic acid	ND	0.025	0.0222	ug/L	89	(70-130)	30	6.1
LCS1	Perfluorododecanoic acid		0.025	0.0259	ug/L	103	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0247	ug/L	99	(70-130)	30	4.7
MBLK	Perfluorododecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.0025	0.00247	ug/L	99	(50-150)		
MS1_201602030242	Perfluorododecanoic acid	ND	0.025	0.0239	ug/L	96	(70-130)		
MSD1_201602030242	Perfluorododecanoic acid	ND	0.025	0.0232	ug/L	93	(70-130)	30	3.0
LCS1	Perfluoroheptanoic acid		0.025	0.0240	ug/L	96	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0242	ug/L	97	(70-130)	30	0.83
MBLK	Perfluoroheptanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.0025	0.00240	ug/L	96	(50-150)		
MS1_201602030242	Perfluoroheptanoic acid	ND	0.025	0.0229	ug/L	90	(70-130)		
MSD1_201602030242	Perfluoroheptanoic acid	ND	0.025	0.0233	ug/L	92	(70-130)	30	1.7
LCS1	Perfluorohexanesulfonic acid		0.024	0.0234	ug/L	99	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.024	0.0234	ug/L	99	(70-130)	30	0.43
MBLK	Perfluorohexanesulfonic acid			<0.00079	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0024	0.00211	ug/L	89	(50-150)		
MS1_201602030242	Perfluorohexanesulfonic acid	ND	0.024	0.0224	ug/L	92	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201602030242	Perfluorohexanesulfonic acid	ND	0.024	0.0222	ug/L	91	(70-130)	30	0.90
LCS1	Perfluorohexanoic acid		0.025	0.0245	ug/L	98	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0249	ug/L	100	(70-130)	30	1.6
MBLK	Perfluorohexanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.0025	0.00244	ug/L	98	(50-150)		
MS1_201602030242	Perfluorohexanoic acid	ND	0.025	0.0246	ug/L	94	(70-130)		
MSD1_201602030242	Perfluorohexanoic acid	ND	0.025	0.0242	ug/L	92	(70-130)	30	1.6
LCS1	Perfluorononanoic acid		0.025	0.0238	ug/L	95	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0233	ug/L	93	(70-130)	30	2.1
MBLK	Perfluorononanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorononanoic acid		0.0025	0.00242	ug/L	97	(50-150)		
MS1_201602030242	Perfluorononanoic acid	ND	0.025	0.0219	ug/L	87	(70-130)		
MSD1_201602030242	Perfluorononanoic acid	ND	0.025	0.0211	ug/L	84	(70-130)	30	3.7
LCS1	Perfluorooctanesulfonic acid		0.024	0.0235	ug/L	98	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.024	0.0228	ug/L	95	(70-130)	30	3.0
MBLK	Perfluorooctanesulfonic acid			<0.0008	ug/L				
MRL_CHK	Perfluorooctanesulfonic acid		0.0024	0.00226	ug/L	94	(50-150)		
MS1_201602030242	Perfluorooctanesulfonic acid	ND	0.024	0.0218	ug/L	88	(70-130)		
MSD1_201602030242	Perfluorooctanesulfonic acid	ND	0.024	0.0218	ug/L	88	(70-130)	30	0.0
LCS1	Perfluorooctanoic acid		0.025	0.0243	ug/L	97	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0233	ug/L	93	(70-130)	30	4.2
MBLK	Perfluorooctanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.0025	0.00290	ug/L	116	(50-150)		
MS1_201602030242	Perfluorooctanoic acid	ND	0.025	0.0233	ug/L	89	(70-130)		
MSD1_201602030242	Perfluorooctanoic acid	ND	0.025	0.0224	ug/L	85	(70-130)	30	3.9
LCS1	Perfluorotetradecanoic acid		0.025	0.0236	ug/L	95	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0233	ug/L	93	(70-130)	30	1.3
MBLK	Perfluorotetradecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.0025	0.00225	ug/L	90	(50-150)		
MS1_201602030242	Perfluorotetradecanoic acid	ND	0.025	0.0219	ug/L	88	(70-130)		
MSD1_201602030242	Perfluorotetradecanoic acid	ND	0.025	0.0214	ug/L	86	(70-130)	30	2.3
LCS1	Perfluorotridecanoic acid		0.025	0.0245	ug/L	98	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0234	ug/L	93	(70-130)	30	4.6
MBLK	Perfluorotridecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.0025	0.00234	ug/L	94	(50-150)		
MS1_201602030242	Perfluorotridecanoic acid	ND	0.025	0.0230	ug/L	92	(70-130)		
MSD1_201602030242	Perfluorotridecanoic acid	ND	0.025	0.0223	ug/L	89	(70-130)	30	3.1
LCS1	Perfluoroundecanoic acid		0.025	0.0248	ug/L	99	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Perfluoroundecanoic acid		0.025	0.0229	ug/L	92	(70-130)	30	8.0
MBLK	Perfluoroundecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.0025	0.00249	ug/L	100	(50-150)		
MS1_201602030242	Perfluoroundecanoic acid	ND	0.025	0.0229	ug/L	92	(70-130)		
MSD1_201602030242	Perfluoroundecanoic acid	ND	0.025	0.0220	ug/L	88	(70-130)	30	4.0

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.