



January 28, 2019

Hand Delivered

Travis Peacock/Merat Zarreii – Industrial Pretreatment Engineer/NPDES Program Manager
Albuquerque Bernalillo County Water Utility Authority
P.O. Box 568
Albuquerque, New Mexico 87103-0568

RE: Semi-Annual Report
Name: Intel Corporation
Permit Number: 2021A
Reporting Period: July 1, 2018 through December 31, 2018

Enclosed is Intel Corporation's Semi-Annual Report for the above stated reporting period as required in the Wastewater Discharge Permit for the facility noted above.

The following information is enclosed:

Endorsement

Ammonia Loading
Cyanide Certification
Average and Daily Effluent Flow Monitoring
Grease Traps, Sand Traps and Oil/Water Separators
Hazardous Air Pollutants Certification
Hazardous Substances and Pretreatment Wastes for Permit # 2021A
2021A pH Monitoring
Reporting Certification
Toxic Organic Management Plan Certification Statement
Special Wastestream Pollutant Limitations
Special Wastestream Pollutant Limitations
Self-Monitoring
Source Reduction and Waste Minimization Statement
Toxic Organic (Solvent) Management Plan
Attachments:

Code

LOAD2
CN
FM6
GS
HAPS
HZ3
PH3
RC
TC3
INGA2
PT
SM
WM
TR6

- A – Intel NM H2 2018 Grease Trap Pumping Manifests
- B – Intel NM TOMP – March 2018
- C – Monthly Indium Gallium Sampling Reports
- D – Semi-Annual Monitoring Analytical Results

To clarify any information submitted, please contact Amy Reed at (505) 794-6841, or by email at amy.reed@intel.com.

Sincerely,

Mindy Koch
NM Site Corporate Services Manager

Enclosures

EHS005

Permit #: 2021A
Permittee: Intel Corporation
Address: 4100 Sara Road
City: Rio Rancho
State, Zip: NM 87124-1025

Reporting Requirements

<u>Code</u>	<u>Endorsement</u>
LOAD2	2021A AMMONIA LOADING
CN	CYANIDE CERTIFICATION
FM6	AVERAGE AND DAILY EFFLUENT FLOW MONITORING
GS	GREASE TRAPS, SAND TRAPS AND OIL/WATER SEPARATORS
HAPS	HAZARDOUS AIR POLLUTANTS CERTIFICATION
HZ3	HAZ WASTE PERMIT 2021A
PH3	PH MONITORING PERMIT 2021A
RC	REPORTING CERTIFICATION
TC3	TOMP CERTIFICATION STATEMENT
INGA2	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
PT	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
SM	SELF-MONITORING
WM	WASTE MIN. PERMIT 2021A
TR6	TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN

ENDORSEMENT LOAD2

2021A AMMONIA LOADING

COMPLIANCE REQUIREMENT: The Permittee is required to discharge less than 2,200 lbs. per day of Ammonia calculated on a monthly average. Industry sampling and Water Authority monitoring may be combined to calculate the monthly average. The Permittee is required to discharge less than 5,418 lbs. per day of Ammonia as a maximum on any one day.

MONITORING REQUIREMENT: The Permittee shall monitor the discharge on a weekly basis using Hach Method 10031, or another method approved by the Industrial Pretreatment Engineer. Monitoring by the permittee may be increased at the discretion of the Industrial Pretreatment Engineer.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Pretreatment Engineer (289-3439) via telephone within 12 hours if any Ammonia load is greater than the monthly average limit. If the Industrial Pretreatment Engineer does not answer, the shift supervisor at the SWRP control room should be notified (289-3411). The Permittee shall report on the monthly bases all Ammonia monitoring and flows. The results and flow must be sent to the Industrial Pretreatment Engineer or her designate by the 10th of the month. Twice a year the Permittee shall conduct accuracy checks per the analytical method and submit the results with each semi-annual report.

In compliance with the Endorsement LOAD2 reporting requirements, Intel NM submitted Ammonia reports to ABCWUA on 8/6/2018, 9/14/2018, 10/5/2018, 11/9/2018, 12/7/2018, and 1/2/2019 which included Ammonia data collected during the second half of 2018 (H2 2018). A summary of Intel NM's analytical method accuracy checks performed during H2 2018 is included below.

Date	Ammonia Analytical Accuracy Checks (10 ppm Standard)
7/18/2018	9.4
7/25/2018	9.1
8/1/2018	9.9
8/8/2018	9.1
8/15/2018	9.4
8/22/2018	10.0
8/30/2018	9.7
9/5/2018	9.1
9/12/2018	9.3
9/19/2018	9.0
9/26/2018	10.3
10/3/2018	10.6
10/11/2018	9.5
10/18/2018	9.0
10/25/2018	9.5
10/31/2018	9.6
11/7/2018	9.0
11/14/2018	9.5
11/21/2018	9.0
11/28/2018	9.9
12/5/2018	9.0
12/12/2018	9.5
12/19/2018	9.0
12/27/2018	9.5

ENDORSEMENT CN

CYANIDE CERTIFICATION

COMPLIANCE REQUIREMENT: See below.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall report either the presence or absence of Cyanide compounds on the premises during the reporting period. Example CYANIDE CERTIFICATION STATEMENTS are shown below. The Permittee shall submit the appropriate certification statement shown below with each semi-annual report submittal.

* * * *

CYANIDE CERTIFICATION STATEMENT (CYANIDE NOT PRESENT)

I hereby certify that no cyanide compounds are stored or used on the premises at this time and that no cyanide compounds were stored or used on the premises during the current permit reporting period. I further certify that the presence of any cyanide compound on the premises shall be reported to the Industrial Waste Engineer (873-7047) within 24 hours of receipt of the compound, regardless of the intended use or disposition of the material.

Facility Name: _____
Permit No.: _____ Date: _____
Signature: _____ Title: _____
Authorized Representative

* * * *

CYANIDE CERTIFICATION STATEMENT (CYANIDE PRESENT)

I hereby certify that cyanide compounds were stored or used on the premises during the current permit reporting period.

Facility Name: Intel Corporation
Permit No.: 2021A Date: 1/25/19
Signature: Mindy Koch Title: NM Corporate Services
Authorized Representative Manager

Cyanide compounds present on the NM site during this reporting period are listed below:

Chemical Ingredient	CAS
Sodium Dichloroisocyanurate	2893-78-9
Sodium Nitroferricyanide	14402-89-2
Ethyl Cyanoacrylate	7085-85-0
Hexylcyanobiphenyl	41122-70-7

ENDORSEMENT FM6

AVERAGE AND DAILY EFFLUENT FLOW MONITORING

COMPLIANCE REQUIREMENT: The holder of this Permit must meet the requirements of 40 CFR 403.12(e)(1), and shall submit to the Pretreatment Program, along with the semi-annual report during the months of January and July, a report which shall include a record of measured or estimated average and maximum daily flows for the reporting period of the effluent from this facility. The report shall also include a copy of this endorsement, with the relevant information filled in below.

The Pretreatment Section may allow for verifiable estimates of these flows, where justified by cost or feasibility considerations.

MONITORING REQUIREMENT: Average and maximum daily flows of all regulated process streams and, as necessary, other effluent streams from the facility.

REPORTING REQUIREMENT: The Permittee shall submit information showing the measured average daily and maximum daily flow, in gallons per day (gpd) to the Pretreatment Program from each of the following:

1. Regulated process streams; and
2. Other streams as necessary to allow use of the Combined Waste Stream Formula.

The permit holder shall submit flow meter calibration documentation with the semi-annual reports.

Average Daily Flow:	<u>1,502,458</u>	gallons per day
Peak Daily Flow:	<u>1,965,430</u>	gallons per day
Peak Daily Flow occurred on:	<u>11/23/2018</u>	date

DAILY EFFLUENT FLOW MONITORING

Per 40 CFR 403.12(e)(1) Intel is submitting measured average and maximum flow data for regulated process streams and un-regulated streams.

July 2018

Date	Site Outfall Fow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
7/1/2018	1095.8	296	792	304
7/2/2018	1001.4	133	860	141
7/3/2018	970.3	126	836	134
7/4/2018	1072.5	181	883	189
7/5/2018	1068.8	246	814	255
7/6/2018	974.1	122	844	130
7/7/2018	1099.2	296	795	304
7/8/2018	960.6	122	830	131
7/9/2018	979.7	122	850	130
7/10/2018	1161.2	294	859	302
7/11/2018	917.8	121	788	129
7/12/2018	1139.9	295	836	304
7/13/2018	1135.3	290	837	298
7/14/2018	976.3	118	850	126
7/15/2018	1134.4	292	834	300
7/16/2018	1040.7	122	911	130
7/17/2018	1128.6	292	828	300
7/18/2018	1182.9	288	887	296
7/19/2018	984.5	119	857	127
7/20/2018	982.0	118	856	126
7/21/2018	909.3	117	784	125
7/22/2018	1008.6	140	860	149
7/23/2018	1086.8	278	800	287
7/24/2018	1110.1	291	811	299
7/25/2018	990.4	117	865	126
7/26/2018	949.7	116	826	124
7/27/2018	959.8	115	836	124
7/28/2018	981.4	123	851	131
7/29/2018	1237.8	455	775	463
7/30/2018	1011.9	142	861	150
7/31/2018	950.8	117	825	125
	gpm	gpd		
Average	1,037	1,493,128		
Peak	1,238	1,782,387	Peak Date	7/29/2018

August 2018

Date	Site Outfall Fow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
8/1/2018	995.6	125	862	133
8/2/2018	907.8	116	783	125
8/3/2018	975.7	121	847	129
8/4/2018	1230.3	469	753	477
8/5/2018	946.4	116	823	124
8/6/2018	977.5	122	848	130
8/7/2018	1021.6	125	888	133
8/8/2018	987.1	118	861	127
8/9/2018	947.9	119	821	127
8/10/2018	1184.5	451	725	459
8/11/2018	884.4	128	748	136
8/12/2018	909.4	117	784	125
8/13/2018	945.4	117	820	125
8/14/2018	882.5	118	756	126
8/15/2018	974.3	121	845	129
8/16/2018	1243.4	383	852	392
8/17/2018	1054.5	204	842	212
8/18/2018	988.2	121	859	129
8/19/2018	970.8	117	845	126
8/20/2018	962.9	119	835	127
8/21/2018	1183.8	297	879	305
8/22/2018	959.1	116	835	125
8/23/2018	1213.8	304	901	313
8/24/2018	1110.4	142	960	150
8/25/2018	1020.1	116	896	124
8/26/2018	947.0	116	823	124
8/27/2018	1080.5	296	776	305
8/28/2018	956.3	121	827	129
8/29/2018	1101.9	291	802	300
8/30/2018	1023.4	133	883	141
8/31/2018	1174.2	151	1,014	160
	gpm	gpd		
Average	1,019	1,467,970		
Peak	1,243	1,790,515	Peak Date	8/16/2018

September 2018

Date	Site Outfall Fow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
9/1/2018	1165.6	307	850	316
9/2/2018	867.6	109	750	117
9/3/2018	924.8	115	801	123
9/4/2018	1048.8	290	751	298
9/5/2018	1084.3	131	945	140
9/6/2018	1203.3	310	885	318
9/7/2018	930.5	115	807	124
9/8/2018	868.7	111	750	119
9/9/2018	942.1	116	818	124
9/10/2018	1055.1	291	756	299
9/11/2018	955.0	118	828	127
9/12/2018	1031.3	291	732	299
9/13/2018	953.0	116	829	124
9/14/2018	891.1	120	763	128
9/15/2018	960.0	115	836	124
9/16/2018	928.2	115	805	123
9/17/2018	1160.1	293	859	301
9/18/2018	1076.4	294	774	302
9/19/2018	980.3	117	855	125
9/20/2018	899.6	116	776	124
9/21/2018	1001.1	117	875	126
9/22/2018	836.7	111	718	119
9/23/2018	1203.7	469	727	477
9/24/2018	865.6	117	740	126
9/25/2018	931.8	120	803	129
9/26/2018	883.5	114	761	123
9/27/2018	962.8	116	839	124
9/28/2018	898.5	120	770	129
9/29/2018	1221.5	461	752	470
9/30/2018	923.2	125	790	133
	gpm	gpd		
Average	988	1,423,399		
Peak	1,222	1,759,013	Peak Date	9/29/2018

October 2018

Date	Site Outfall Fow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
10/1/2018	899.8	121	770	129
10/2/2018	961.0	115	837	124
10/3/2018	988.1	119	861	127
10/4/2018	1084.6	131	946	139
10/5/2018	1275.9	468	800	476
10/6/2018	1153.0	141	1,004	149
10/7/2018	1056.8	116	932	124
10/8/2018	1038.5	114	916	123
10/9/2018	956.1	115	833	123
10/10/2018	1094.2	213	873	222
10/11/2018	1159.3	372	779	381
10/12/2018	977.5	117	853	125
10/13/2018	945.7	117	821	125
10/14/2018	985.1	115	861	124
10/15/2018	1037.0	122	907	130
10/16/2018	1172.9	289	876	297
10/17/2018	1075.3	137	930	145
10/18/2018	1147.5	276	863	284
10/19/2018	1048.4	120	920	129
10/20/2018	1068.5	135	926	143
10/21/2018	1084.2	287	789	295
10/22/2018	1011.2	120	882	129
10/23/2018	1038.0	113	917	121
10/24/2018	1175.3	284	883	292
10/25/2018	988.9	112	869	120
10/26/2018	962.7	112	842	121
10/27/2018	1139.7	285	847	293
10/28/2018	874.6	111	755	119
10/29/2018	942.7	111	823	120
10/30/2018	1125.2	280	836	289
10/31/2018	1027.3	119	900	128
	gpm	gpd		
Average	1,049	1,510,441		
Peak	1,276	1,837,344	Peak Date	10/5/2018

November 2018

Date	Site Outfall Fow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
11/1/2018	985.2	117	859	126
11/2/2018	1185.9	289	888	297
11/3/2018	1068.1	126	933	135
11/4/2018	948.5	113	827	121
11/5/2018	988.4	112	868	120
11/6/2018	1327.8	468	851	477
11/7/2018	933.4	111	815	119
11/8/2018	993.9	111	874	120
11/9/2018	1041.5	122	912	130
11/10/2018	1113.8	132	974	140
11/11/2018	1130.2	242	880	250
11/12/2018	1224.2	335	881	344
11/13/2018	994.1	112	874	120
11/14/2018	1007.7	117	882	125
11/15/2018	1023.3	110	905	118
11/16/2018	1053.5	125	920	133
11/17/2018	1296.3	306	982	314
11/18/2018	1111.0	286	817	294
11/19/2018	1038.1	117	913	125
11/20/2018	982.1	116	858	125
11/21/2018	1006.9	115	883	124
11/22/2018	1084.9	126	951	134
11/23/2018	1364.9	465	892	473
11/24/2018	969.8	118	844	126
11/25/2018	1000.5	112	880	120
11/26/2018	1000.5	112	880	120
11/27/2018	1026.3	118	900	127
11/28/2018	1139.3	287	844	295
11/29/2018	1161.1	288	865	296
11/30/2018	977.7	118	851	126
	gpm	gpd		
Average	1,073	1,544,577		
Peak	1,365	1,965,430	Peak Date	11/23/2018

December 2018

Date	Site Outfall Fow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
12/1/2018	975.1	112	854	121
12/2/2018	1002.0	118	876	126
12/3/2018	1053.2	117	927	126
12/4/2018	1197.0	288	901	296
12/5/2018	1192.9	289	895	298
12/6/2018	1047.6	116	923	124
12/7/2018	1189.5	136	1,045	145
12/8/2018	980.0	113	859	121
12/9/2018	1120.8	246	866	254
12/10/2018	991.3	157	826	166
12/11/2018	1178.5	231	939	239
12/12/2018	1131.9	193	931	201
12/13/2018	1145.7	136	1,001	145
12/14/2018	1141.0	137	996	145
12/15/2018	1261.7	304	950	312
12/16/2018	980.9	119	854	127
12/17/2018	1179.7	293	878	302
12/18/2018	980.8	113	859	122
12/19/2018	1043.8	120	915	129
12/20/2018	1233.5	303	923	311
12/21/2018	1045.9	123	915	131
12/22/2018	1089.2	129	952	137
12/23/2018	1139.1	293	838	301
12/24/2018	956.4	113	835	121
12/25/2018	983.1	111	864	119
12/26/2018	1209.4	293	908	302
12/27/2018	1140.0	130	1,002	138
12/28/2018	1002.6	117	878	125
12/29/2018	1036.6	112	916	120
12/30/2018	1164.8	294	862	302
12/31/2018	1117.1	289	819	298
	gpm	gpd		
Average	1,094	1,575,231		
Peak	1,262	1,816,828	Peak Date	12/15/2018

ENDORSEMENT GS

GREASE TRAPS, SAND TRAPS AND OIL/WATER SEPARATORS

COMPLIANCE REQUIREMENT: Facilities with grease traps, sand traps or oil/water separators shall periodically inspect the operation of these devices and remove accumulated grease, sand, oil or grit as required to prevent discharge of such pollutants (or materials) to the sanitary sewer.

MONITORING REQUIREMENT: The Permittee shall perform periodic inspections, as required, to assure timely removal of accumulated materials.

REPORTING REQUIREMENT: The Permittee shall document in each semi-annual report the method used to dispose of materials removed from grease traps, sand traps or oil/water separators. This must include a narrative statement, along with copies of the manifest forms for each material removed from the Permittee's facility during the reporting period. If no materials are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided below.

* * * *

Intel NM's grease trap pumping manifests for H2 2018 are included as Attachment A. As noted in the attached pumping manifests, the grease trap described as 'RR5 Trap from Coffee Area N/W' was out of service during H2 2018. While pending repair, bimonthly flushing of water has been allowed to flow through the grease trap – it has not encountered any fats, oils, greases, or coffee grounds while out of service.

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT – NO SHIPMENTS

I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and NO shipments of accumulated grease, oil, sand or grit have occurred during this reporting period.

Facility Name: _____

Permit No.: _____ Date: _____

Signature: _____ Title: _____

Authorized Representative

Intel Semi-Annual Wastewater Report | H2 2018


* * * *

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT - SHIPMENTS

I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and shipments of accumulated grease, oil, sand or grit HAVE occurred during this reporting period. Copies of manifests are attached.

Facility Name: Intel Corporation

Permit No.: 2021A Date: 1/25/19

Signature:  Title: NM Corporate Services Manager
Authorized Representative

Intel Semi-Annual Wastewater Report | H2 2018

ENDORSEMENT HAPS

HAZARDOUS AIR POLLUTANTS CERTIFICATION

COMPLIANCE REQUIREMENT: The Permittee shall not use the treatment and controls located at the POTW to comply with its NESHAP.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall submit the appropriate certification statement shown below with each semi-annual report submittal.

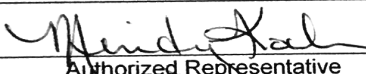
* * * *

NESHAP CERTIFICATION STATEMENT

I hereby certify that this facility does not use the treatment and controls located at the POTW to comply with its NESHAP.

Facility Name: Intel Corporation

Permit No.: 2021A Date: 1/25/19

Signature:  Title: NM Corporate Services Manager

Authorized Representative

ENDORSEMENT HZ3

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES

FOR PERMIT # 2021A

COMPLIANCE REQUIREMENT: The permittee shall insure that: 1) all pretreatment processes are handled in accordance with applicable Resource Conservation and Recovery Act (RCRA) regulations, 2) no materials removed by a pretreatment process are reintroduced into the waste stream, and, 3) hazardous substances stored on-site are not discharged to the sanitary sewer. In other words, disposal of pretreatment wastes or hazardous substances into the sanitary sewer is strictly forbidden.

MONITORING REQUIREMENTS: None required by the Permittee.

REPORTING REQUIREMENTS: The permittee shall document in each semi-annual report, the method used to dispose of materials removed by the pretreatment process and/or hazardous substances stored on-site. This must include a narrative statement, along with a summary of all hazardous materials generated from the NM site for the reporting period. All original manifests are to be maintained in the permittee's regulatory files and be available to the Water Authority upon request. If no hazardous substances or pretreatment wastes are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided.

* * * *

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION
STATEMENT

I hereby certify that NO shipments of hazardous substances or pretreatment wastes have occurred during this reporting period. **NOT APPLICABLE**

Facility Name: _____

Permit No.: _____ Date: _____

Signature: _____ Title: _____
Authorized Representative

US EPA ID. No. _____ (IF APPLICABLE)

Intel Semi-Annual Wastewater Report | H2 2018

* * * *

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION STATEMENT

I hereby certify that shipments of hazardous substances or pretreatment wastes HAVE occurred during this reporting period. A summary of these shipments has been included with this report.

Facility Name: Intel Corporation
Permit No.: 2021A Date: 1/25/19
Signature: *Mindy Koch* Title: NM Corporate Services
Authorized Representative Manager

US EPA ID. No. NMD000609339 (IF APPLICABLE)

**HAZARDOUS SUBSTANCES AND PRETREATMENT
WASTE MANAGEMENT**

Intel Corporation utilizes Veolia Environmental Services Technical Solutions, Evoqua Water Technologies, and Clean Harbors Environmental for removal and disposal of all hazardous substances generated at the New Mexico site.

Veolia Environmental Services Technical Solutions, Evoqua Water Technologies, and Clean Harbors Environmental Services are EPA permitted Treatment Storage and Disposal Facilities (TSDFs). The addresses of the facilities are below:

Veolia Environmental Services Technical Solutions

9131 East 96th Avenue

Henderson, CO 80640

Phone Number: (303) 289-4827

Evoqua Water Technologies

2430 Rose Place

Roseville, MN 55113

Phone Number: (651) 638-1330

Clean Harbors Environmental Services

1340 West Lincoln Street

Phoenix, AZ 85007

Phone Number: (602) 258-6155

A summary report of all hazardous materials generated from the New Mexico site for the reporting period is included. All original manifests are maintained in our regulatory files and are available to the Water Authority upon request.

Intel Semi-Annual Wastewater Report H2 2018

Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
001262224VES	7/2/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42280	21.14	Y
BOL0044114	7/2/18	DECANTGSOLVE470	Decant Gensolve 470	44	0.02	N
ZZ00109082	7/2/18	529928	SLUDGE, CALCIUM FLUORIDE	15060	7.53	N
011205083FLE	7/3/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0044115	7/4/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011211166FLE	7/5/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044116	7/5/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109121	7/5/18	529928	SLUDGE, CALCIUM FLUORIDE	15000	7.50	N
011211167FLE	7/6/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
001262225VES	7/9/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	38420	19.21	Y
011704504FLE	7/9/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0044117	7/9/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
ZZ00109122	7/9/18	529928	SLUDGE, CALCIUM FLUORIDE	17000	8.50	N
011205084FLE	7/10/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0044118	7/10/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00109123	7/10/18	529928	SLUDGE, CALCIUM FLUORIDE	14620	7.31	N
016742756JJK	7/11/18	9919333	Slurry Copper Wastewater Resin	1906	0.95	Y
001262240VES	7/12/18	483253	SOLVENT, GENERAL-MIXED	36760	18.38	Y
BOL0044108	7/12/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
011211168FLE	7/13/18	Decant PBR-40	Decant Drum PBR 40	22	0.01	Y
BOL0112909	7/13/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109083	7/13/18	529928	SLUDGE, CALCIUM FLUORIDE	16840	8.42	N
011205085FLE	7/16/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0112910	7/16/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
ZZ00109150	7/16/18	529928	SLUDGE, CALCIUM FLUORIDE	14560	7.28	N
011704505FLE	7/17/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112911	7/18/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262226VES	7/19/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41740	20.87	Y
011211169FLE	7/19/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112912	7/19/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N

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ZZ00109084	7/19/18	529928	SLUDGE, CALCIUM FLUORIDE	17840	8.92	N
BOL0112913	7/20/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109167	7/20/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	35680	17.84	N
011211170FLE	7/23/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112914	7/23/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109151	7/23/18	529928	SLUDGE, CALCIUM FLUORIDE	16060	8.03	N
ZZ00109168	7/23/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	3229	1.61	N
ZZ00109168	7/23/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	35431	17.72	N
BOL0112915	7/24/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
016742757JJK	7/25/18	7919597	Slurry Copper Wastewater Resin	1615	0.81	Y
BOL0112916	7/25/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00109152	7/25/18	529928	SLUDGE, CALCIUM FLUORIDE	11820	5.91	N
001262316VES	7/26/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	35800	17.90	Y
011000791FLE	7/26/18	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
011211171FLE	7/26/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112917	7/26/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109169	7/26/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	3353	1.68	N
ZZ00109169	7/26/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	36927	18.46	N
ZZ00109128	7/27/18	529928	SLUDGE, CALCIUM FLUORIDE	16940	8.47	N
011205086FLE	7/30/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
011211172FLE	7/30/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
011704506FLE	7/30/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112918	7/30/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
BOL0112919	7/31/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109156	7/31/18	529928	SLUDGE, CALCIUM FLUORIDE	20780	10.39	N
ZZ00109202	7/31/18	713448	Battery Recycled Shipments	43540	21.77	N
ZZ00109204	7/31/18	713448	Battery Recycled Shipments	40520	20.26	N
001262317VES	8/2/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	31780	15.89	Y
BOL0112920	8/2/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
011211173FLE	8/3/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y

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BOL0112921	8/3/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109157	8/3/18	529928	SLUDGE, CALCIUM FLUORIDE	16140	8.07	N
ZZ00109205	8/3/18	713448	Battery Recycled Shipments	27420	13.71	N
011205087FLE	8/6/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
011211174FLE	8/6/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112923	8/6/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109158	8/6/18	529928	SLUDGE, CALCIUM FLUORIDE	16020	8.01	N
ZZ00109199	8/6/18	713448	Battery Recycled Shipments	28420	14.21	N
011704507FLE	8/7/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112924	8/7/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
016742758JJK	8/8/18	7919597	Slurry Copper Wastewater Resin	1537	0.77	Y
001262318VES	8/9/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	32040	16.02	Y
BOL0112925	8/9/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109141	8/9/18	713448	Battery Recycled Shipments	12220	6.11	N
011830682FLE	8/10/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112927	8/10/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109149	8/11/18	529928	SLUDGE, CALCIUM FLUORIDE	16380	8.19	N
011830683FLE	8/13/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112929	8/13/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
BOL0112930	8/14/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109159	8/14/18	529928	SLUDGE, CALCIUM FLUORIDE	15480	7.74	N
011205071FLE	8/15/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011205088FLE	8/15/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0112931	8/15/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
010559726FLE	8/16/18	Dec CLK-222	Decant Drum CLK-222,corrosive	10	0.01	Y
011830684FLE	8/16/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112932	8/17/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109160	8/17/18	529928	SLUDGE, CALCIUM FLUORIDE	14620	7.31	N
001074317VES	8/20/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41240	20.62	Y
011205089FLE	8/20/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0112933	8/20/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N

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ZZ00109155	8/20/18	529928	SLUDGE, CALCIUM FLUORIDE	17120	8.56	N
011830685FLE	8/21/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112934	8/21/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
016742759JJK	8/22/18	9919333	Slurry Copper Wastewater Resin	2123	1.06	Y
BOL0112935	8/22/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
001262196VES	8/23/18	442983	REPEATING LABPACK	21	0.01	Y
001262196VES	8/23/18	442983	REPEATING LABPACK	55	0.03	Y
001262196VES	8/23/18	442983	REPEATING LABPACK	102	0.05	Y
001262196VES	8/23/18	533335	DEBRIS, SOLVENT-HAZARDOUS	125	0.06	Y
001262196VES	8/23/18	533335	DEBRIS, SOLVENT-HAZARDOUS	159	0.08	Y
001262196VES	8/23/18	713453	HMDS DEBRIS	71	0.04	Y
001262196VES	8/23/18	202100	IPA CONTAMINATED WIPES	491	0.25	Y
001262196VES	8/23/18	202100	IPA CONTAMINATED WIPES	522	0.26	Y
001262196VES	8/23/18	202100	IPA CONTAMINATED WIPES	512	0.26	Y
001262196VES	8/23/18	202100	IPA CONTAMINATED WIPES	500	0.25	Y
001262196VES	8/23/18	442923	BROKEN MERCURY LIGHT BULBS	14	0.01	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	155	0.08	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	127	0.06	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	138	0.07	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	141	0.07	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	95	0.05	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	143	0.07	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	168	0.08	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	132	0.07	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	179	0.09	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	268	0.13	Y
001262196VES	8/23/18	442913	DEBRIS, ARSENIC	135	0.07	Y
001262196VES	8/23/18	287245	EXPIRED WATER TREATMENT CHEMICAL	156	0.08	Y
001262196VES	8/23/18	287245	EXPIRED WATER TREATMENT CHEMICAL	587	0.29	Y
001262196VES	8/23/18	287245	EXPIRED WATER TREATMENT CHEMICAL	526	0.26	Y
001262196VES	8/23/18	693403	SOLVENTS, SPIN ON GLASS	222	0.11	Y
001262196VES	8/23/18	399773	SOLVENTS, HMDS	32	0.02	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
001262196VES	8/23/18	691900	DEBRIS, HOUSE VACUUM	86	0.04	Y
001262196VES	8/23/18	692557	CYLINDERS, COMPRESSED GASES	40	0.02	Y
001262196VES	8/23/18	399825	EDT PARTS	195	0.10	Y
001262196VES	8/23/18	399825	EDT PARTS	125	0.06	Y
001262196VES	8/23/18	399825	EDT PARTS	172	0.09	Y
001262196VES	8/23/18	713454	CCW FILTERS, WIPES, ABSORBENTS, PPE	94	0.05	Y
BOL0112936	8/23/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109311	8/23/18	442912	LAMPS, MERCURY	324	0.16	N
ZZ00109311	8/23/18	442912	LAMPS, MERCURY	114	0.06	N
ZZ00109311	8/23/18	442912	LAMPS, MERCURY	147	0.07	N
ZZ00109311	8/23/18	442912	LAMPS, MERCURY	127	0.06	N
ZZ00109311	8/23/18	532530	USED OIL	203	0.10	N
ZZ00109311	8/23/18	532530	USED OIL	434	0.22	N
ZZ00109311	8/23/18	442694	BATTERIES, LEAD ACID - NON SPILLABLE	2345	1.17	N
ZZ00109311	8/23/18	532537	BATTERIES, LEAD/ACID-WET	54	0.03	N
ZZ00109311	8/23/18	532531	DEBRIS, SOLVENT - NON HAZARDOUS	145	0.07	N
ZZ00109311	8/23/18	532531	DEBRIS, SOLVENT - NON HAZARDOUS	129	0.06	N
ZZ00109311	8/23/18	366538	IWE 830 POLYMER	277	0.14	N
ZZ00109311	8/23/18	366538	IWE 830 POLYMER	501	0.25	N
ZZ00109311	8/23/18	699340	USED OIL, POLYALKYLENE GLYCOL	367	0.18	N
ZZ00109311	8/23/18	713449	DEBRIS, INDIUM PHOSPHIDE	104	0.05	N
ZZ00109311	8/23/18	713449	DEBRIS, INDIUM PHOSPHIDE	97	0.05	N
ZZ00109311	8/23/18	713449	DEBRIS, INDIUM PHOSPHIDE	102	0.05	N
ZZ00109311	8/23/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	280	0.14	N
ZZ00109311	8/23/18	713444	MIXED BATTERIES (UNIVERSAL-WASTE BAT)	460	0.23	N
ZZ00109311	8/23/18	592227	USED OIL, FLUOROCARBONS, PERFLUORINATED	589	0.29	N
ZZ00109311	8/23/18	592332	ELECTRONIC EQUIPMENT & COMPUTER MONITORS	681	0.34	N
ZZ00520527	8/23/18	529928	SLUDGE, CALCIUM FLUORIDE	17300	8.65	N
011205072FLE	8/24/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y

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BOL0112937	8/24/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262241VES	8/27/18	483253	SOLVENT, GENERAL-MIXED	39500	19.75	Y
011830686FLE	8/27/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112938	8/27/18	DecantGsolve470	Decant Gensolve 470	21	0.01	N
ZZ00520528	8/27/18	529928	SLUDGE, CALCIUM FLUORIDE	16480	8.24	N
011830687FLE	8/28/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112939	8/28/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00520529	8/28/18	529928	SLUDGE, CALCIUM FLUORIDE	16700	8.35	N
BOL0112941	8/29/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001074316VES	8/30/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42440	21.22	Y
011830688FLE	8/30/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112942	8/30/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0112943	8/31/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00109161	8/31/18	529928	SLUDGE, CALCIUM FLUORIDE	15980	7.99	N
011830689FLE	9/3/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112944	9/3/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
011205163FLE	9/4/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0112945	9/4/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00520530	9/4/18	529928	SLUDGE, CALCIUM FLUORIDE	16300	8.15	N
011205149FLE	9/5/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
016742760JJK	9/5/18	7919597	Slurry Copper Wastewater Resin	1459	0.73	Y
BOL0112946	9/5/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
001074441VES	9/6/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41660	20.83	Y
011205165FLE	9/6/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0112947	9/6/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00109162	9/6/18	529928	SLUDGE, CALCIUM FLUORIDE	16160	8.08	N
BOL0044146	9/7/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011000790FLE	9/10/18	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
011830690FLE	9/10/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044147	9/10/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109163	9/10/18	529928	SLUDGE, CALCIUM FLUORIDE	15220	7.61	N

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ZZ00520531	9/10/18	529928	SLUDGE, CALCIUM FLUORIDE	16520	8.26	N
011830691FLE	9/11/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043804	9/11/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012326773FLE	9/12/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043805	9/12/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
ZZ00109189	9/12/18	529928	SLUDGE, CALCIUM FLUORIDE	15660	7.83	N
001262326VES	9/13/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41260	20.63	Y
BOL0043844	9/14/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109190	9/15/18	529928	SLUDGE, CALCIUM FLUORIDE	16300	8.15	N
011830667FLE	9/17/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012326774FLE	9/17/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043845	9/17/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
BOL0043846	9/18/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0043847	9/18/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
ZZ00520532	9/18/18	529928	SLUDGE, CALCIUM FLUORIDE	15640	7.82	N
011205150FLE	9/19/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0043848	9/20/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00109191	9/20/18	529928	SLUDGE, CALCIUM FLUORIDE	14920	7.46	N
012326775FLE	9/21/18	Decant PBR-40	Decant Drum PBR 40	21	0.01	Y
BOL0043849	9/21/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262333VES	9/24/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41520	20.76	Y
BOL0043852	9/24/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00520589	9/24/18	529928	SLUDGE, CALCIUM FLUORIDE	15960	7.98	N
BOL0043853	9/25/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00520590	9/25/18	713448	Battery Recycled Shipments	14960	7.48	N
011205151FLE	9/26/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0043854	9/26/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
012326776FLE	9/27/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043855	9/27/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00520593	9/27/18	529928	SLUDGE, CALCIUM FLUORIDE	14760	7.38	N
011830668FLE	9/28/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0043856	9/28/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N

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ZZ00520594	9/28/18	529928	SLUDGE, CALCIUM FLUORIDE	16100	8.05	N
016742761JJK	10/3/18	7919597	Slurry Copper Wastewater Resin	1558	0.78	Y
016742762JJK	10/17/18	7919597	Slurry Copper Wastewater Resin	1673	0.84	Y
016742763JJK	11/13/18	7919597	Slurry Copper Wastewater Resin	1657	0.83	Y
016742763JJK	11/28/18	7919597	Slurry Copper Wastewater Resin	1422	0.71	Y
001262334VES	10/1/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41580	20.79	Y
012326777FLE	10/1/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043857	10/1/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
ZZ00520591	10/2/18	529928	SLUDGE, CALCIUM FLUORIDE	15960	7.98	N
012326778FLE	10/2/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043858	10/2/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
016742761JJK	10/3/18	7919597	Slurry Copper Wastewater Resin	1558	0.78	Y
001074450VES	10/4/18	483253	SOLVENT, GENERAL-MIXED	39420	19.71	Y
ZZ00520592	10/4/18	529928	SLUDGE, CALCIUM FLUORIDE	14080	7.04	N
BOL0043859	10/4/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
BOL0043860	10/5/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262335VES	10/8/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41320	20.66	Y
ZZ00109238	10/8/18	529928	SLUDGE, CALCIUM FLUORIDE	15940	7.97	N
011205152FLE	10/8/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011830669FLE	10/8/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012325779FLE	10/8/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043861	10/8/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109216	10/9/18	529928	SLUDGE, CALCIUM FLUORIDE	14660	7.33	N
BOL0043862	10/9/18	DecantGsolve470	Decant Gensolve 470	9	0.00	N
012325780FLE	10/10/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043863	10/10/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109233	10/11/18	529928	SLUDGE, CALCIUM FLUORIDE	15480	7.74	N
BOL0043865	10/11/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
75421	10/11/18	699552	Sludge, Spent Ion Exchange Resin	15040	7.52	N
BOL0043866	10/12/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N

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ZZ00109236	10/15/18	529928	SLUDGE, CALCIUM FLUORIDE	15980	7.99	N
012325781FLE	10/15/18	DECANT PBR-40	Decant Drum PBR 40	22	0.01	Y
BOL0043867	10/15/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109239	10/16/18	529928	SLUDGE, CALCIUM FLUORIDE	16940	8.47	N
011830670FLE	10/16/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0043868	10/16/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0043869	10/17/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
016742762JJK	10/17/18	7919597	Slurry Copper Wastewater Resin	1673	0.84	Y
75414	10/17/18	699552	Sludge, Spent Ion Exchange Resin	13720	6.86	N
011205153FLE	10/18/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0043870	10/18/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
001262336VES	10/19/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	43920	21.96	Y
ZZ00109237	10/19/18	529928	SLUDGE, CALCIUM FLUORIDE	16200	8.10	N
BOL0043871	10/19/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
ZZ00109240	10/22/18	529928	SLUDGE, CALCIUM FLUORIDE	15540	7.77	N
011249776FLE	10/22/18	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
012325782FLE	10/22/18	Decant PBR-40	Decant Drum PBR 40	22	0.01	Y
BOL0043873	10/22/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109241	10/23/18	529928	SLUDGE, CALCIUM FLUORIDE	16240	8.12	N
BOL0043874	10/23/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
75415	10/23/18	699552	Sludge, Spent Ion Exchange Resin	8020	4.01	N
BOL0043875	10/24/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262337VES	10/25/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	37560	18.78	Y
BOL0043876	10/25/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
79140	10/26/18	529928	SLUDGE, CALCIUM FLUORIDE	15420	7.71	N
011830671FLE	10/26/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
012325783FLE	10/26/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043877	10/26/18	DecantGsolve470	Decant Gensolve 470	9	0.00	N
ZZ00109242	10/29/18	529928	SLUDGE, CALCIUM FLUORIDE	15340	7.67	N
011205155FLE	10/29/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y

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BOL0043878	10/29/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
010559727FLE	10/30/18	Dec CLK-222	Decant Drum CLK-222,corrosive	13	0.01	Y
BOL0043879	10/30/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109243	10/31/18	529928	SLUDGE, CALCIUM FLUORIDE	16120	8.06	N
BOL0043880	10/31/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262339VES	11/1/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41940	20.97	Y
012325784FLE	11/1/18	Decant PBR-40	Decant Drum PBR 40	22	0.01	Y
BOL0043881	11/1/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
79141	11/2/18	529928	SLUDGE, CALCIUM FLUORIDE	16160	8.08	N
BOL0043882	11/2/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109251	11/5/18	529928	SLUDGE, CALCIUM FLUORIDE	16280	8.14	N
011830672FLE	11/5/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0043883	11/5/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
BOL0043884	11/6/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012325785FLE	11/7/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043885	11/7/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001508556VES	11/8/18	366535	PAINT RELATED MATERIALS	71	0.04	Y
001508556VES	11/8/18	442983	REPEATING LABPACK	78	0.04	Y
001508556VES	11/8/18	533335	DEBRIS, SOLVENT-HAZARDOUS	110	0.06	Y
001508556VES	11/8/18	533335	DEBRIS, SOLVENT-HAZARDOUS	136	0.07	Y
001508556VES	11/8/18	713453	HMDS DEBRIS	64	0.03	Y
001508556VES	11/8/18	713455	AEROSOLS - FOOD SERVICE	3	0.00	Y
001508556VES	11/8/18	202100	IPA CONTAMINATED WIPES	283	0.14	Y
001508556VES	11/8/18	202100	IPA CONTAMINATED WIPES	415	0.21	Y
001508556VES	11/8/18	202100	IPA CONTAMINATED WIPES	474	0.24	Y
001508556VES	11/8/18	202100	IPA CONTAMINATED WIPES	473	0.24	Y
001508556VES	11/8/18	202100	IPA CONTAMINATED WIPES	388	0.19	Y
001508556VES	11/8/18	442923	BROKEN MERCURY LIGHT BULBS	11	0.01	Y
ZZ00109314	11/8/18	532530	USED OIL	424	0.21	N
ZZ00109314	11/8/18	532530	USED OIL	432	0.22	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
ZZ00109314	11/8/18	532530	USED OIL	429	0.21	N
001508556VES	11/8/18	377210	XENON DIFLUORIDE CONTAINER	10	0.01	N
ZZ00109314	11/8/18	713446	DEBRIS W/DIESEL FUEL FLASH PT >140F	122	0.06	N
79142	11/8/18	529928	SLUDGE, CALCIUM FLUORIDE	15040	7.52	N
ZZ00109314	11/8/18	442694	BATTERIES, LEAD ACID - NON SPILLABLE	1758	0.88	N
ZZ00109314	11/8/18	532535	BATTERIES, LITHIUM METAL	167	0.08	N
ZZ00109314	11/8/18	532526	SLUDGE, ION EXCHANGE	443	0.22	N
ZZ00109314	11/8/18	693461	CALCIUM HYDROXIDE POWDER	105	0.05	N
ZZ00109314	11/8/18	713449	DEBRIS, INDIUM PHOSPHIDE	90	0.05	N
ZZ00109314	11/8/18	713449	DEBRIS, INDIUM PHOSPHIDE	100	0.05	N
ZZ00109314	11/8/18	713449	DEBRIS, INDIUM PHOSPHIDE	93	0.05	N
ZZ00109314	11/8/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	846	0.42	N
ZZ00109314	11/8/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	958	0.48	N
ZZ00109314	11/8/18	713448	UPS BATTERIES, LEAD ACID - NON SPILLABLE	981	0.49	N
ZZ00109314	11/8/18	713444	MIXED BATTERIES (UNIVERSAL-WASTE BAT)	422	0.21	N
ZZ00109314	11/8/18	592227	USED OIL, FLUOROCARBONS, PERFLUORINATED	557	0.28	N
011205157FLE	11/8/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
012325786FLE	11/9/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043886	11/9/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
001262340VES	11/12/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41990	21.00	Y
ZZ00109252	11/12/18	529928	SLUDGE, CALCIUM FLUORIDE	16040	8.02	N
79143	11/12/18	529928	SLUDGE, CALCIUM FLUORIDE	16100	8.05	N
BOL0043887	11/12/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
BOL0043888	11/13/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
016742763JJK	11/13/18	7919597	Slurry Copper Wastewater Resin	1657	0.83	Y
012325787FLE	11/14/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0043889	11/14/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
001074496VES	11/15/18	483253	SOLVENT, GENERAL-MIXED	41700	20.85	Y
79144	11/15/18	529928	SLUDGE, CALCIUM FLUORIDE	15840	7.92	N
011830673FLE	11/15/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0043890	11/15/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
012325788FLE	11/16/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
001262342VES	11/19/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	38660	19.33	Y
ZZ00109253	11/19/18	529928	SLUDGE, CALCIUM FLUORIDE	15660	7.83	N
BOL0044148	11/19/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109254	11/20/18	529928	SLUDGE, CALCIUM FLUORIDE	16260	8.13	N
012325789FLE	11/20/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044149	11/20/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
011205158FLE	11/21/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0044150	11/21/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
BOL11222018	11/22/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
79145	11/23/18	529928	SLUDGE, CALCIUM FLUORIDE	15880	7.94	N
012326779FLE	11/23/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
001262343VES	11/26/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42420	21.21	Y
ZZ00109255	11/26/18	529928	SLUDGE, CALCIUM FLUORIDE	15820	7.91	N
011830674FLE	11/26/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0044151	11/26/18	DECANTGSOLVE470	Decant Gensolve 470	55	0.03	N
012326780FLE	11/27/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
ZZ00109256	11/28/18	529928	SLUDGE, CALCIUM FLUORIDE	16080	8.04	N
BOL0151155	11/28/18	DecantGsolve470	Decant Gensolve 470	20	0.01	N
016742764JJK	11/28/18	7919597	Slurry Copper Wastewater Resin	1422	0.71	Y
BOL0151156	11/29/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
79146	11/30/18	529928	SLUDGE, CALCIUM FLUORIDE	16280	8.14	N
012326781FLE	11/30/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151157	11/30/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109257	12/3/18	529928	SLUDGE, CALCIUM FLUORIDE	15720	7.86	N
BOL0151158	12/3/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
011830675FLE	12/4/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012326887FLE	12/4/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151159	12/4/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
79147	12/5/18	529928	SLUDGE, CALCIUM FLUORIDE	15680	7.84	N
011704509FLE	12/5/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0151160	12/5/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262345VES	12/6/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41960	20.98	Y
79148	12/7/18	529928	SLUDGE, CALCIUM FLUORIDE	15680	7.84	N
011249777FLE	12/7/18	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
012326889FLE	12/7/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151161	12/7/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109129	12/10/18	529928	SLUDGE, CALCIUM FLUORIDE	15400	7.70	N
011830676FLE	12/10/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0151162	12/10/18	DecantGsolve470	Decant Gensolve 470	22	0.01	N
BOL0151163	12/11/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012326891FLE	12/12/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151164	12/12/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001262347VES	12/13/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41680	20.84	Y
79149	12/13/18	529928	SLUDGE, CALCIUM FLUORIDE	15720	7.86	N
011830677FLE	12/13/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0151165	12/13/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
001074497VES	12/17/18	483253	SOLVENT, GENERAL-MIXED	31800	15.90	Y
ZZ00109130	12/17/18	529928	SLUDGE, CALCIUM FLUORIDE	15880	7.94	N
012326893FLE	12/17/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151166	12/17/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
79150	12/18/18	529928	SLUDGE, CALCIUM FLUORIDE	15800	7.90	N
BOL0151167	12/18/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
012325833FLE	12/19/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012326894FLE	12/19/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
001262348VES	12/20/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42280	21.14	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
79151	12/20/18	529928	SLUDGE, CALCIUM FLUORIDE	15540	7.77	N
BOL0151156	11/29/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
79146	11/30/18	529928	SLUDGE, CALCIUM FLUORIDE	16280	8.14	N
012326781FLE	11/30/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151157	11/30/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109257	12/3/18	529928	SLUDGE, CALCIUM FLUORIDE	15720	7.86	N
BOL0151158	12/3/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
011830675FLE	12/4/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012326887FLE	12/4/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151159	12/4/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
79147	12/5/18	529928	SLUDGE, CALCIUM FLUORIDE	15680	7.84	N
011704509FLE	12/5/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0151160	12/5/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262345VES	12/6/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41960	20.98	Y
79148	12/7/18	529928	SLUDGE, CALCIUM FLUORIDE	15680	7.84	N
011249777FLE	12/7/18	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
012326889FLE	12/7/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151161	12/7/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109129	12/10/18	529928	SLUDGE, CALCIUM FLUORIDE	15400	7.70	N
011830676FLE	12/10/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0151162	12/10/18	DecantGsolve470	Decant Gensolve 470	22	0.01	N
BOL0151163	12/11/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012326891FLE	12/12/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151164	12/12/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001262347VES	12/13/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41680	20.84	Y
79149	12/13/18	529928	SLUDGE, CALCIUM FLUORIDE	15720	7.86	N
011830677FLE	12/13/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0151165	12/13/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
001074497VES	12/17/18	483253	SOLVENT, GENERAL-MIXED	31800	15.90	Y
ZZ00109130	12/17/18	529928	SLUDGE, CALCIUM FLUORIDE	15880	7.94	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
012326893FLE	12/17/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151166	12/17/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
79150	12/18/18	529928	SLUDGE, CALCIUM FLUORIDE	15800	7.90	N
BOL0151167	12/18/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
012325833FLE	12/19/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012326894FLE	12/19/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
001262348VES	12/20/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42280	21.14	Y
79151	12/20/18	529928	SLUDGE, CALCIUM FLUORIDE	15540	7.77	N
BOL0151168	12/20/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
BOL0151169	12/21/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011830678FLE	12/24/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
012326895FLE	12/24/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151170	12/24/18	DECANTGSOLVE470	Decant Gensolve 470	42	0.02	N
ZZ00109131	12/24/18	529928	SLUDGE, CALCIUM FLUORIDE	15840	7.92	N
ZZ00109132	12/24/18	529928	SLUDGE, CALCIUM FLUORIDE	12980	6.49	N
012326896FLE	12/26/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151171	12/26/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
BOL0151172	12/27/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
79152	12/27/18	529928	SLUDGE, CALCIUM FLUORIDE	15020	7.51	N
001262350VES	12/31/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42120	21.06	Y
012325834FLE	12/31/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012326897FLE	12/31/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0151173	12/31/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109133	12/31/18	529928	SLUDGE, CALCIUM FLUORIDE	16200	8.10	N

ENDORSEMENT PH3

2021A pH MONITORING

COMPLIANCE REQUIREMENT: The Permittee is required to maintain a system to monitor the pH of the effluent from each acid waste neutralization unit continuously. This monitoring is required for information purposes only. The Permittee is required to maintain a system to monitor the pH of the effluent from the site outfall continuously. Compliance with the pH limit this permit will be determined at the designated sampling point at the site outfall.

MONITORING REQUIREMENT: See above.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Waste Engineer within 24 hours of becoming aware of a pH excursion at the Site Vault lasting more than 60 minutes including circumstances and corrective action taken.

The Permittee shall include with each semi-annual report, the results of pH monitoring conducted at the permit sample point during the reporting period. Results reported must include:

- 1) Daily maximum and time of occurrence.
- 2) Daily minimum and time of occurrence.
- 3) Duration in minutes of each individual excursion above or below limits set in this permit. Limits are those stated in the Ordinance unless otherwise noted.

As noted in 40 CFR 401.17

- 1) The total time during which the pH values are outside the required range of pH values shall not exceed seven (7) hours and 26 minutes in any calendar month.
- 2) No individual excursion from the range of pH values shall exceed 60 minutes.

CONTINUOUS pH MONITORING REPORT

July 2018 – August 2018

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)
7/1/2018	6.54	0	9.88	0	8/1/2018	6.69	0	9.97	0
7/2/2018	6.37	0	9.96	0	8/2/2018	6.69	0	9.65	0
7/3/2018	6.26	0	9.47	0	8/3/2018	7.00	0	10.17	0
7/4/2018	6.30	0	10.24	0	8/4/2018	6.60	0	9.74	0
7/5/2018	6.40	0	8.88	0	8/5/2018	6.55	0	9.78	0
7/6/2018	6.23	0	9.70	0	8/6/2018	6.95	0	9.69	0
7/7/2018	6.32	0	8.64	0	8/7/2018	6.85	0	10.62	0
7/8/2018	6.23	0	10.29	0	8/8/2018	6.58	0	9.94	0
7/9/2018	6.42	0	8.26	0	8/9/2018	6.68	0	9.68	0
7/10/2018	6.00	0	10.46	0	8/10/2018	6.56	0	9.64	0
7/11/2018	9.05	0	9.93	0	8/11/2018	6.60	0	9.73	0
7/12/2018	6.57	0	9.80	0	8/12/2018	7.15	0	9.98	0
7/13/2018	6.50	0	9.26	0	8/13/2018	6.92	0	9.90	0
7/14/2018	6.41	0	9.32	0	8/14/2018	6.97	0	9.41	0
7/15/2018	6.65	0	9.20	0	8/15/2018	7.15	0	9.61	0
7/16/2018	6.23	0	9.14	0	8/16/2018	7.10	0	9.71	0
7/17/2018	6.36	0	8.94	0	8/17/2018	7.09	0	9.74	0
7/18/2018	6.61	0	9.25	0	8/18/2018	7.37	0	10.16	0
7/19/2018	6.72	0	9.06	0	8/19/2018	6.93	0	9.47	0
7/20/2018	6.86	0	9.01	0	8/20/2018	7.48	0	10.22	0
7/21/2018	6.79	0	9.22	0	8/21/2018	7.18	0	10.13	0
7/22/2018	6.72	0	9.38	0	8/22/2018	7.16	0	9.38	0
7/23/2018	6.64	0	9.53	0	8/23/2018	6.71	0	9.91	0
7/24/2018	6.54	0	9.61	0	8/24/2018	6.62	0	9.97	0
7/25/2018	6.81	0	9.78	0	8/25/2018	6.71	0	9.64	0
7/26/2018	6.49	0	9.24	0	8/26/2018	6.82	0	9.80	0
7/27/2018	6.56	0	9.87	0	8/27/2018	6.49	0	9.74	0
7/28/2018	7.10	0	10.42	0	8/28/2018	6.55	0	9.92	0
7/29/2018	6.58	0	8.99	0	8/29/2018	6.49	0	8.84	0
7/30/2018	6.61	0	9.55	0	8/30/2018	6.53	0	9.04	0
7/31/2018	6.83	0	9.55	0	8/31/2018	6.50	0	9.65	0
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

September 2018 – October 2018

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)
9/1/2018	6.46	0	9.58	0	10/1/2018	6.10	0	9.90	0
9/2/2018	6.63	0	9.36	0	10/2/2018	5.91	0	8.74	0
9/3/2018	6.59	0	9.56	0	10/3/2018	5.94	0	10.02	0
9/4/2018	6.38	0	8.79	0	10/4/2018	6.32	0	8.82	0
9/5/2018	6.64	0	9.77	0	10/5/2018	5.87	0	6.83	0
9/6/2018	6.59	0	9.95	0	10/6/2018	5.99	0	9.90	0
9/7/2018	6.37	0	9.44	0	10/7/2018	6.07	0	7.84	0
9/8/2018	6.58	0	9.68	0	10/8/2018	6.08	0	8.62	0
9/9/2018	6.57	0	9.10	0	10/9/2018	5.80	0	8.93	0
9/10/2018	6.59	0	8.89	0	10/10/2018	5.69	0	7.09	0
9/11/2018	6.42	0	9.71	0	10/11/2018	5.73	0	7.62	0
9/12/2018	6.43	0	9.84	0	10/12/2018	6.10	0	9.16	0
9/13/2018	6.35	0	9.19	0	10/13/2018	6.01	0	7.03	0
9/14/2018	6.42	0	9.28	0	10/14/2018	5.84	0	10.21	0
9/15/2018	6.68	0	9.73	0	10/15/2018	6.01	0	9.29	0
9/16/2018	6.41	0	9.56	0	10/16/2018	5.95	0	6.91	0
9/17/2018	6.48	0	9.86	0	10/17/2018	6.04	0	10.38	0
9/18/2018	6.30	0	9.85	0	10/18/2018	5.88	0	9.11	0
9/19/2018	6.43	0	8.77	0	10/19/2018	6.02	0	9.79	0
9/20/2018	6.43	0	10.47	0	10/20/2018	5.96	0	10.41	0
9/21/2018	6.10	0	10.07	0	10/21/2018	5.65	0	6.56	0
9/22/2018	6.19	0	9.68	0	10/22/2018	5.83	0	7.90	0
9/23/2018	6.00	0	10.70	0	10/23/2018	5.58	0	10.11	0
9/24/2018	6.15	0	8.82	0	10/24/2018	5.49	0	7.19	0
9/25/2018	6.27	0	8.41	0	10/25/2018	5.81	0	10.11	0
9/26/2018	5.91	0	10.10	0	10/26/2018	5.69	0	9.47	0
9/27/2018	6.19	0	9.41	0	10/27/2018	5.73	0	8.66	0
9/28/2018	6.12	0	9.36	0	10/28/2018	5.84	0	9.54	0
9/29/2018	5.95	0	7.59	0	10/29/2018	5.85	0	9.75	0
9/30/2018	6.14	0	10.77	0	10/30/2018	5.79	0	9.28	0
					10/31/2018	5.83	0	10.64	0
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

November 2018 – December 2018

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)
11/1/2018	5.82	0	10.17	0	12/1/2018	6.14	0	9.12	0
11/2/2018	5.70	0	9.59	0	12/2/2018	6.15	0	9.69	0
11/3/2018	5.56	0	7.12	0	12/3/2018	6.09	0	9.67	0
11/4/2018	5.51	0	9.37	0	12/4/2018	5.91	0	9.13	0
11/5/2018	5.58	0	7.18	0	12/5/2018	6.02	0	9.12	0
11/6/2018	5.58	0	10.50	0	12/6/2018	6.09	0	10.64	0
11/7/2018	5.60	0	9.97	0	12/7/2018	6.21	0	9.56	0
11/8/2018	5.71	0	8.94	0	12/8/2018	6.29	0	8.41	0
11/9/2018	5.86	0	6.85	0	12/9/2018	6.03	0	10.17	0
11/10/2018	5.98	0	8.98	0	12/10/2018	6.14	0	9.84	0
11/11/2018	5.74	0	8.70	0	12/11/2018	5.69	0	8.87	0
11/12/2018	5.84	0	8.70	0	12/12/2018	5.96	0	9.15	0
11/13/2018	5.81	0	9.68	0	12/13/2018	6.00	0	8.19	0
11/14/2018	5.78	0	8.31	0	12/14/2018	5.97	0	9.87	0
11/15/2018	5.90	0	9.49	0	12/15/2018	6.07	0	10.20	0
11/16/2018	6.11	0	8.63	0	12/16/2018	6.33	0	10.48	0
11/17/2018	6.12	0	10.35	0	12/17/2018	6.21	0	8.65	0
11/18/2018	6.08	0	9.02	0	12/18/2018	6.33	0	9.35	0
11/19/2018	6.32	0	10.28	0	12/19/2018	6.07	0	7.68	0
11/20/2018	6.08	0	9.78	0	12/20/2018	6.08	0	9.71	0
11/21/2018	5.85	0	9.27	0	12/21/2018	6.40	0	9.71	0
11/22/2018	5.86	0	10.20	0	12/22/2018	6.39	0	10.63	0
11/23/2018	5.95	0	9.40	0	12/23/2018	6.14	0	8.75	0
11/24/2018	5.78	0	9.62	0	12/24/2018	6.23	0	9.65	0
11/25/2018	5.79	0	9.29	0	12/25/2018	6.30	0	10.10	0
11/26/2018	5.95	0	9.89	0	12/26/2018	6.13	0	9.36	0
11/27/2018	5.99	0	8.99	0	12/27/2018	6.19	0	9.72	0
11/28/2018	5.81	0	8.74	0	12/28/2018	6.12	0	8.62	0
11/29/2018	6.11	0	9.96	0	12/29/2018	6.09	0	7.57	0
11/30/2018	6.38	0	10.44	0	12/30/2018	6.24	0	10.50	0
					12/31/2018	6.17	0	9.33	0
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

ENDORSEMENT RC

REPORTING CERTIFICATION

COMPLIANCE REQUIREMENT: The Permittee is required to certify all materials and information submitted with semi-annual reports is accurate and complete.

MONITORING REQUIREMENT: None

REPORTING REQUIREMENT: The Permittee must complete, sign and submit the Reporting Certification (shown below) with each semi-annual report.

* * * * *

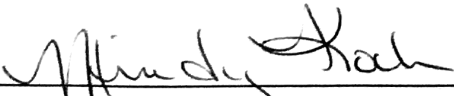
REPORTING CERTIFICATION

Facility Name: Intel Corporation

Permit Number: 2021A

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

(Signature)



Authorized Representative

1/25/19
Date

ENDORSEMENT TC3

TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT

COMPLIANCE REQUIREMENT: The most recent TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN (TOMP) submitted by the Permittee to the Industrial Waste Engineer remains in effect. The Permittee must notify the Industrial Waste Engineer, in writing, of any changes to the TOMP.

MONITORING REQUIREMENT: None required by the Permittee.

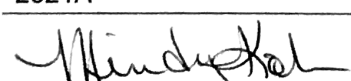
REPORTING REQUIREMENT: The Permittee shall continue to submit a TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT with each semiannual report. A sample certification statement has been provided below.

* * * *

The Toxic Organic Management Plan (TOMP) was last modified in March 2018 and submitted to ABCWUA at the time of revision. The March 2018 updated version of the TOMP accurately reflects current site operations. The TOMP is included as Attachment B.

TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT

Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitations [or pretreatment standard] for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred during this reporting period. I further certify that this facility is implementing the TOXIC ORGANIC MANAGEMENT PLAN (TOMP) submitted to the Industrial Waste Engineer.

Facility Name:	Intel Corporation	
Permit No.:	2021A	Date: 1/25/19
Signature:	 Authorized Representative	Title: NM Site Corporate Services Manager

ENDORSEMENT INGA2

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

COMPLIANCE REQUIREMENT: The concentration of the following pollutants in the flow through the sampling point shall not exceed that shown below:

POLLUTANT	MAXIMUM FOR ANY 1 DAY
Indium	0.30 mg/l
Gallium	See Schedule Below

Step	Gallium Concentration	Effective Dates
1	1.00 mg/L	2/7/2018 – 8/31/2019
2	2.00 mg/l	9/1/2018 – 2/28/2019
3	3.125 mg/L	3/1/2019 - onward

MONITORING REQUIREMENT: The permittee is required to sample the site discharge for the above pollutants monthly. Each monthly monitoring event must be performed using a 24 hour composite sample. Once per step and semi-annually there after the permittee must perform a monitoring event for four days in a row using a 24 hour composite sampler. All analysis must be done using EPA approved methods.

REPORTING REQUIREMENT: If the EPA method is not applicable the permittee must submit production values and calculations in each semi-annual report that show the concentrations of the above pollutants at the site outfall.

In compliance with Endorsement INGA2, Intel NM submitted monthly Indium and Gallium sampling results collected during H2 2018 to ABCWUA on July 18th, September 7th, October 5th, October 25th, November 26th and January 7th, 2018.

Monthly Indium and Gallium analytical reports are attached for reference (Attachment C). The semi-annual sampling results submitted to ABCWUA on November 26th, 2018 (Attachment D) served as the monthly submittal for November 2018. Requirements of INGA2 have been met for the reporting period of this Semi-Annual Report.

ENDORSEMENT PT

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

COMPLIANCE REQUIREMENT: The concentration of Platinum in the flow through the sampling point shall not exceed that shown below:

POLLUTANT	MAXIMUM FOR ANY 1 DAY
Platinum	0.10 mg/l

MONITORING REQUIREMENT: The permittee is required to sample the site discharge for the above pollutants semi-annually. Each semi-annual monitoring event must be performed four day in a row using a 24-hour composite sample. All analysis must be done using EPA approved methods. If the EPA method is not applicable, the permittee must submit production values and calculations in each semi-annual report that show the concentrations of the above pollutants at the site outfall.

REPORTING REQUIREMENT: Submit semi-annual sampling results within the 14 day reporting requirement that show the concentrations of Platinum at the site outfall.

Semi-Annual sampling for Platinum was conducted from November 4th through November 7th, 2018. Intel NM received analytical results on November 23rd, 2018 and submitted the results to ABCWUA on November 26th, 2018. Semi-annual sampling results are attached for reference. Requirements of Endorsement PT have been met for the reporting period of this Semi-Annual Report.

ENDORSEMENT SM

SELF-MONITORING

COMPLIANCE REQUIREMENT: Per 40 CFR 403.12(n) the Permittee is required to submit all test results from self-monitoring sampling meeting the following criteria:

- Obtained at the designated sample site;
- Obtained through appropriate sampling techniques; and
- Analyzed in accordance with the procedures established in 40 CFR 136

MONITORING REQUIREMENT: The Permittee is not required to sample the effluent flow because the Water Authority monitors. However, if the Permittee does sample and meets the above criteria, results must be submitted.

REPORTING REQUIREMENT: Within 14 days after the Permittee becomes aware of sample results meeting the Compliance Requirement above, or 24 hours after the Permittee becomes aware of sample results indicating a violation of the Wastewater Discharge Permit, the Permittee is required to submit the following:

- The date, exact place, method, and time of sampling and the names of the person or person taking the samples'
- The dates analyses were performed;
- Who performed the analyses;
- The analytical techniques/methods used; and
- The results of such analyses

The Permittee subject to the reporting requirements established in this section shall retain for a minimum of three (3) years any records of monitoring activities and results, and shall make such records available for inspection and copying. This period of retention shall be extended during the course of any unresolved litigation regarding the Permittee or Water Authority or when requested by the Industrial Pretreatment Engineer.

NOTE: Split samples between the Permittee and the Water Authority, which meet the Compliance Requirement, will be averaged. All other samples, which meet the Compliance Requirement, will be used as individual sampling events. All samples, which meet the Compliance Requirement, will be used to determine the following:

- Violations of the Permittee's Wastewater Discharge Permit; and/or
- Significant non-Compliance (see Section 3-9-1 of the Water Authority Sewer Use and Wastewater Control Ordinance).

In compliance with Endorsement SM, semi-annual sampling was conducted from November 4th through November 7th, 2018. Intel NM received analytical results on November 23rd, 2018 and submitted the results to ABCWUA on November 26th, 2018. Semi-annual sampling results are attached for reference (Attachment D).

ENDORSEMENT WM

POLLUTION PREVENTION THROUGH SOURCE REDUCTION AND WASTE MINIMIZATION

COMPLIANCE REQUIREMENT: Permittees shall endeavor, whenever feasible, to reduce or eliminate otherwise polluting substances in waste stream(s) by source reduction, waste minimization or more effective pretreatment.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENTS: The Permittee shall include a narrative statement with each semi-annual report describing any source reduction, waste minimization or pretreatment efforts undertaken during the reporting period. If no such efforts are undertaken, the Permittee shall include a statement to that effect in the report.

Pollution Prevention through Source Reduction and Waste Minimization Statement

July 2018 - December 2018

Water Use Reduction Projects:

None for this time period.

Source Reduction Projects:

None for this time period.

NM Site Recycling Rate:

The Intel NM site had a non-hazardous chemical waste recycling rate of 80.1% for H2 2018.

ENDORSEMENT TR6

TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN

COMPLIANCE REQUIREMENT: The Permittee is required to submit a TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN (TOMP) to the Industrial Waste Engineer every two years, and when changes to the plan occur. The Plan shall identify all toxic organics used onsite, quantities used and stored at the facility, procedures followed to prevent discharge and spills of these materials to the sanitary sewer, and the method of disposal used in place of discharge to the sanitary sewer. The TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN shall be submitted to the Industrial Waste Engineer no later than April 1, 2016. It is recommended that the TOMP be posted in the facility work area.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENTS: The Permittee shall also submit a TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT with each semi-annual report. The CERTIFICATION STATEMENT is included in this permit as Endorsement TC3.

In compliance with Endorsement TR6 and TC3, the TMP is attached (Attachment B).

Attachments

Attachment A - Intel NM Grease Trap Pumping Manifests – H2 2018

Attachment B - Intel NM TOMP – March 2018

Attachment C - Monthly Indium Gallium Sampling Reports

Attachment D - Semi-Annual Monitoring Analytical Results

ATTACHMENT A

Intel NM Grease Trap Pumping Manifest – H2 2018

RRS Grease Trap Dump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

RRS

DISPOSAL TRIP MANIFEST 63138

WASTE PRODUCER

PRODUCER'S NAME Intel RRS APPROX. GALLONS 150 DATE OF COLLECTION 7/6/18

ADDRESS 4100 Sara Rd WASTE TYPE: SAND OR GRIT GREASE

CITY Las Alamos STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 7/6/18 WASTE TRANSPORTER _____

TRUCK DRIVERS SIGNATURE [Signature] DATE 7/6/18 PERMIT NO. _____

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service
7-6-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>34631</u>	<u>7/6/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

Rio Rancho Grease Trap		Comments
Inspection Date 7-6-18	Service Date 7-6-18	Technician/Company BETH HARSO / AAA Pumping
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3.0 Inches	
Depth of Solids	25 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping YARD	

D.T.M. #13138

26 RRS TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	7-6-18	Service Date 7-6-18 Technician/Company BILLY HARSO / AAA RAMPING
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD	

Report must be delivered to Intel EHS upon completion

D. T. M. # 63138

27 RRS TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date	2-6-18	Service Date	2-6-18	Technician/Company	Bill Harso / AAA Rem Pumps
Rio Rancho Grease Trap					
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12	Inches			
Depth of FOG (fats, oils, grease)	0	Inches			
Depth of Solids	1/6	Inches			
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No				
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No				
Are the access covers in need of repair?	Yes/No				
FOG Passing by Interceptor?	Yes/No				
Does grease interceptor need immediate repair?	Yes/No				
Are there signs the grease interceptor walls may be deteriorating?	Yes/No				
Are there signs the grease interceptor may be leaking?	Yes/No				
Was the grease interceptor pressure washed?	Yes/No				
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No				
Is there any leakage under the baffle wall?	Yes/No				
Was all grease removed from walls, ledges and ridges?	Yes/No				
Total Gallons pumped out:	20				
Location where grease was disposed of:	AAA Rem Pumps YARD				

Comments

D.T.M. # 63138

28 RRS TRAP FROM COFFEE AREA NW

Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	7-6-18	Service Date 7-6-18 Technician/Company BILLY ARSO AAA RUNNING
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	BOTTOM MIDDLE HAS A HOLE BOTTOM TUB RIGGER TRAP LAST TIME. TAK PICTURES AND SENT TO MANAGEMENT NOTE! THIS TRAP USUALLY HAS NO FOG JUST COFFEE SOLID ON BOTTOM
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	25	
Location where grease was disposed of:	AAA Pumping Yard	

RR5 Grease Trap Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
63699

WASTE PRODUCER

PRODUCER'S NAME: Fintel RR5 PHONE: _____ APPROX. GALLONS: 150 DATE OF COLLECTION: 7/20/18

ADDRESS: 4100 Santa Rd WASTE TYPE: _____
CITY: Rio Rancho STATE: NM ZIP: _____ SAND OR GRIT GREASE

RESPON. PERSON: X SIGNATURE: [Signature] DATE: 7/20/18 OTHER - DESCRIBE: _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE: X [Signature] DATE: 7/20/18 PERMIT NO. 24

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service
7-20-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>34910</u>	<u>7/20/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

Inspection Date <u>7-20-18</u> Service Date <u>7-20-18</u> Technician/Company <u>BILLY HARSO</u>		Comments
<i>Rio Rancho Grease Trap</i>		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3.5 Inches	
Depth of Solids	0.5 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard	

D. T. M. # 63699

RR5- TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Inspection Date <u>7-20-18</u> Service Date <u>7-20-18</u> Technician/Company <u>Billy HARRIS</u> Comments	
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	<u>15</u> Inches
Depth of FOG (fats, oils, grease)	<u>1/32</u> Inches
Depth of Solids	<u>1/4</u> Inches
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/ <u>No</u>
Prior to opening is odor from the interceptor present 10' or greater?	Yes/ <u>No</u>
Are the access covers in need of repair?	Yes/ <u>No</u>
FOG Passing by Interceptor?	Yes/ <u>No</u>
Does grease interceptor need immediate repair?	Yes/ <u>No</u>
Are there signs the grease interceptor walls may be deteriorating?	Yes/ <u>No</u>
Are there signs the grease interceptor may be leaking?	Yes/ <u>No</u>
Was the grease interceptor pressure washed?	Yes/ <u>No</u>
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/ <u>No</u>
Is there any leakage under the baffle wall?	Yes/ <u>No</u>
Was all grease removed from walls, ledges and ridges?	Yes/ <u>No</u>
Total Gallons pumped out:	<u>50</u>
Location where grease was disposed of:	<u>AAA RAMPING YARD</u>

AAA RAMPING

D. T. W. # 631699

27 RR5 TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date	7-20-18	Service Date	7-20-18	Technician/Company	BILEY AR50	Comments	AAA Pumping
Rio Rancho Grease Trap							
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12	Inches					
Depth of FOG (fats, oils, grease)	0	Inches					
Depth of Solids	0	Inches					
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes	No					
Prior to opening is odor from the interceptor present 10' or greater?	Yes	No					
Are the access covers in need of repair?	Yes	No					
FOG Passing by Interceptor?	Yes	No					
Does grease interceptor need immediate repair?	Yes	No					
Are there signs the grease interceptor walls may be deteriorating?	Yes	No					
Are there signs the grease interceptor may be leaking?	Yes	No					
Was the grease interceptor pressure washed?	Yes	No					
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes	No					
Is there any leakage under the baffle wall?	Yes	No					
Was all grease removed from walls, ledges and ridges?	Yes	No					
Total Gallons pumped out:	20						
Location where grease was disposed of:	AAA Pumping TRAD						

Report must be delivered to Intel EHS upon completion

D.T.M. # 123456789

28 RR5 TRAP FROM COFFEE AREA
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	7-20-18	Service Date 7-20-18 Technician/Company BILLY HARRIS AAA REMOVALS
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	18 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	FLOW TO THIS TRAP HAS BEEN STOPPED UNIT REPAIRS CAN BE COMPLETED. WATER ONLY WAS FLUSHED THROUGH, SO VENDOR CALD RAMP IT OUT TO CLEAN IT PRIOR TO REPAIRS
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA REMOVALS YARD	

RR5 GREASE TRAP PUMP


AAA PUMPING SERVICE, INC.
 P.O. BOX 12186 ALBUQUERQUE, NM 87195
 Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST 63778

WASTE PRODUCER
 APPROX. DATE OF COLLECTION 8/3/18
 GALLONS 150

PRODUCER'S NAME Fryel RRS **PHONE** _____
ADDRESS 4100 Sona A1 **WASTE TYPE:**
CITY Los Lunas **STATE** NM **ZIP** _____
 SAND OR GRIT GREASE
 OTHER - DESCRIBE _____

RESPON. PERSON X [Signature] **DATE** 8/3/18
WASTE TRANSPORTER
 SAND OR GRIT GREASE
 OTHER - DESCRIBE _____

TRUCK DRIVER'S SIGNATURE X [Signature] **DATE** 8/3/18 **PERMIT NO.** _____
DISPOSAL SITE DATE STAMP **HAULER'S BILLING INFORMATION**

AAA Pumping Service
8-3-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>34951</u>	<u>8/3/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. **AAA SEPTIC TANK & PUMPING SERVICE, INC.** reserves the right to file legal action against the Waste Producer for falsification of information.
 FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

Inspection Date	8-3-18	Service Date	8-3-18	Technician/Company	BILLY ARSO	Comments	AAA Repair
Rio Rancho Grease Trap							
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15	Inches					
Depth of FOG (fats, oils, grease)	3.0	Inches					
Depth of Solids	0.5	Inches					
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No						
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No						
Are the access covers in need of repair?	Yes/No						
FOG Passing by Interceptor?	Yes/No						
Does grease interceptor need immediate repair?	Yes/No						
Are there signs the grease interceptor walls may be deteriorating?	Yes/No						
Are there signs the grease interceptor may be leaking?	Yes/No						
Was the grease interceptor pressure washed?	Yes/No						
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No						
Is there any leakage under the baffle wall?	Yes/No						
Was all grease removed from walls, ledges and ridges?	Yes/No						
Total Gallons pumped out:	50						
Location where grease was disposed of:	AAA						AAA Repair Yard

D.T.M. # 637178

RR5 TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Inspection Date <u>8-3-18</u> Service Date <u>8-3-18</u> Technician/Company <u>BILL HARSO</u> Comments	
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	<u>15</u> Inches
Depth of FOG (fats, oils, grease)	<u>1/32</u> Inches
Depth of Solids	<u>1/16</u> Inches
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No <input checked="" type="radio"/> No
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No <input checked="" type="radio"/> No
Are the access covers in need of repair?	Yes/No <input checked="" type="radio"/> No
FOG Passing by Interceptor?	Yes/No <input checked="" type="radio"/> No
Does grease interceptor need immediate repair?	Yes/No <input checked="" type="radio"/> No
Are there signs the grease interceptor walls may be deteriorating?	Yes/No <input checked="" type="radio"/> No
Are there signs the grease interceptor may be leaking?	Yes/No <input checked="" type="radio"/> No
Was the grease interceptor pressure washed?	Yes/No <input checked="" type="radio"/> No
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No <input checked="" type="radio"/> No
Is there any leakage under the baffle wall?	Yes/No <input checked="" type="radio"/> No
Was all grease removed from walls, ledges and ridges?	Yes/No <input checked="" type="radio"/> No
Total Gallons pumped out:	<u>50</u>
Location where grease was disposed of:	<u>AAA REMOVAL YARD</u>

Report must be delivered to Intel EHS upon completion

D.T.M. # 63778

27 RR5 TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date	8-3-18	Service Date	8-3-18	Technician/Company	BILLY HANSEN	Comments	AAA RAMPING
Rio Rancho Grease Trap							
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches						
Depth of FOG (fats, oils, grease)	0 Inches						
Depth of Solids	1/32 Inches						
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No						
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No						
Are the access covers in need of repair?	Yes/No						
FOG Passing by Interceptor?	Yes/No						
Does grease interceptor need immediate repair?	Yes/No						
Are there signs the grease interceptor walls may be deteriorating?	Yes/No						
Are there signs the grease interceptor may be leaking?	Yes/No						
Was the grease interceptor pressure washed?	Yes/No						
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No						
Is there any leakage under the baffle wall?	Yes/No						
Was all grease removed from walls, ledges and ridges?	Yes/No						
Total Gallons pumped out:	20						
Location where grease was disposed of:	AAA RAMPING YARD						

D.T.M. # 63778

28 RR5 TRAP FROM COFFEE AREA
Rio Rancho, Grease Removal Device Report

Inspection Date <u>8-3-18</u> Service Date <u>8-3-18</u> Technician/Company <u>BILL HARRIS / AAA REMANUS</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/32 Inches	COFFEE GR.
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	FLOW HAS BEEN STOPPED TO THIS TRAP FOR SEVERAL WEEKS, FLESHED WITH WATER TO FURTHER CLEAN OUT PRIOR TO FIX.
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA REPAIRS YARD	

RR5 Grease Trap Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
64443

WASTE PRODUCER

PRODUCER'S NAME Ink 1 - R25 PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 8/12/18

ADDRESS 4100 Sara RD WASTE TYPE: SAND OR GRIT GREASE

CITY Los Ranchos STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 8/17/18 WASTE TRANSPORTER _____

TRUCK DRIVER'S SIGNATURE [Signature] DATE 8/17/18 PERMIT NO. [Signature]

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

Inspection Date 8-17-18		Service Date 8-17-18		Technician/Company Ruben Montoya AAA RemPins	
Rio Rancho Grease Trap					
Comments					
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches				
Depth of FOG (fats, oils, grease)	3.2 Inches				
Depth of Solids	0.5 Inches				
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No				
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No				
Are the access covers in need of repair?	Yes/No				
FOG Passing by Interceptor?	Yes/No				
Does grease interceptor need immediate repair?	Yes/No				
Are there signs the grease interceptor walls may be deteriorating?	Yes/No				
Are there signs the grease interceptor may be leaking?	Yes/No				
Was the grease interceptor pressure washed?	Yes/No				
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No				
Is there any leakage under the baffle wall?	Yes/No				
Was all grease removed from walls, ledges and ridges?	Yes/No				
Total Gallons pumped out:	50				
Location where grease was disposed of:	AAA RAMPAGE YARD.				

Report must be delivered to Intel EHS upon completion

D. T. M. # 64443

RR5 TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Inspection Date <u>8-17-18</u> Service Date <u>8-17-18</u> Technician/Company <u>RR5/MONTYA AAA PUMPING</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/8 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard	

Report must be delivered to Intel EHS upon completion

D. T. M. # 64449

27 RR5 TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date 8-17-18 Service Date 8-17-18 Technician/Company RUBEN VENTURA AAA REMOVING
Rio Rancho Grease Trap Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	EMPTYING YARD

Report must be delivered to Intel EHS upon completion

D.T.W. # 64443

28

RR5 TRAP FROM GREASE AREA NEW
Rio Rancho, Grease Removal Device Report

Inspection Date 8-17-18		Service Date 8-17-18		Technician/Company RUBY/RYBA		Comments	
Rio Rancho Grease Trap							
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches						
Depth of FOG (fats, oils, grease)	0 Inches						
Depth of Solids	0 Inches						
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No						
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No						
Are the access covers in need of repair?	Yes/No						
FOG Passing by Interceptor?	Yes/No						
Does grease interceptor need immediate repair?	Yes/No						
Are there signs the grease interceptor walls may be deteriorating?	Yes/No						
Are there signs the grease interceptor may be leaking?	Yes/No						
Was the grease interceptor pressure washed?	Yes/No						
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No						
Is there any leakage under the baffle wall?	Yes/No						
Was all grease removed from walls, ledges and ridges?	Yes/No						
Total Gallons pumped out:	20						
Location where grease was disposed of:	AAA						

TRAP IS NOT IN SERVICE.
 PENDING REPLACEMENT,
 A WORK ORDER HAS BEEN GENERATED
 BY INTEL FOR THE FIX.

TRAP FLUSHED WITH WATER + REMOVED
 AAA RAMPING YARD

RR5 GREASE TRAP Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
64615

WASTE PRODUCER

PRODUCER'S NAME Inte-l-Kas

PHONE

APPROX. GALLONS

DATE OF COLLECTION

ADDRESS 4100 Sara Rd

150

9/7/18

CITY

Rio Rancho

STATE

NM

ZIP

WASTE TYPE:

SAND OR GRIT

GREASE

RESPON. PERSON

[Signature]

DATE

9/7/18

OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE

[Signature]

DATE

9/7/18

PERMIT NO.

SB0232

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

Inspection Date	9-7-18	Service Date	9-7-18	Technician/Company	RUBEN MONTOYA AAA RAMPING
Rio Rancho Grease Trap					
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches				
Depth of FOG (fats, oils, grease)	3 1/4 Inches				
Depth of Solids	1/4 Inches				
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No				
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No				
Are the access covers in need of repair?	Yes/No				
FOG Passing by Interceptor?	Yes/No				
Does grease interceptor need immediate repair?	Yes/No				
Are there signs the grease interceptor walls may be deteriorating?	Yes/No				
Are there signs the grease interceptor may be leaking?	Yes/No				
Was the grease interceptor pressure washed?	Yes/No				
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No				
Is there any leakage under the baffle wall?	Yes/No				
Was all grease removed from walls, ledges and ridges?	Yes/No				
Total Gallons pumped out:	50				
Location where grease was disposed of:	AAA RAMPING YARD				

Report must be delivered to Intel EHS upon completion

D. I. M. # 64615
 26
 RRS TRAP UNDER TABLE
 Rio Rancho, Grease Removal Device Report

Inspection Date <u>9-7-18</u> Service Date <u>9-7-18</u> Technician/Company <u>RUGEN/BOYA AAA REMAINS</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber		
Depth of FOG (fats, oils, grease)	15 Inches	
Depth of Solids	1/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	1/4 Inches	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	AMPING YARD

Report must be delivered to Intel EHS upon completion

D.T.M. # 64615

27

RRS TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>9-7-18</u> Service Date <u>9-17-18</u> Technician/Company <u>RUBEN BORDIA</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pump Trap	

Report must be delivered to Intel EHS upon completion

D. T. W. 64615

28 RR5 TRAP FROM COFFEE MILL
 Rio Rancho, Grease Removal Device Report

Inspection Date <u>9-7-18</u> Service Date <u>9-7-18</u> Technician/Company <u>Roben/Avotra AAA Pumping</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	UNIT IS OUT OF SERVICE AND WAITING FOR PARTS, JUST PUMPED OUT WATER FLUSH TO FLOOR DRAIN/WET
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING TRUCK

Report must be delivered to Intel EHS upon completion

RR5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
64187

WASTE PRODUCER

PRODUCER'S NAME Hotel LRS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 9/21/18

ADDRESS 4100 Santa Rd WASTE TYPE: SAND OR GRIT GREASE

CITY Rio Rancho STATE NM ZIP _____

RESPON. PERSON [Signature] DATE 9/21/18 OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 9/21/18 PERMIT NO. _____

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service

92118

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>85461</u>	<u>9/21/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Inspection Date <u>9-21-18</u> Service Date <u>9-21-18</u> Technician/Company <u>BILL HARSO</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	<u>15</u> Inches	
Depth of FOG (fats, oils, grease)	<u>3.25</u> Inches	
Depth of Solids	<u>0.25</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No <input checked="" type="radio"/> No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No <input checked="" type="radio"/> No	
Are the access covers in need of repair?	Yes/No <input checked="" type="radio"/> No	
FOG Passing by Interceptor?	Yes/No <input checked="" type="radio"/> No	
Does grease interceptor need immediate repair?	Yes/No <input checked="" type="radio"/> No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No <input checked="" type="radio"/> No	
Are there signs the grease interceptor may be leaking?	Yes/No <input checked="" type="radio"/> No	
Was the grease interceptor pressure washed?	Yes/No <input checked="" type="radio"/> No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No <input checked="" type="radio"/> No	
Is there any leakage under the baffle wall?	Yes/No <input checked="" type="radio"/> No	
Was all grease removed from walls, ledges and ridges?	Yes/No <input checked="" type="radio"/> No	
Total Gallons pumped out:	<u>50</u>	
Location where grease was disposed of:	<u>AAA RAMPING YARD AND RECYCLED</u>	

D.T.M. # 104187

2C

RRS TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>9-21-18</u> Service Date <u>9-21-18</u> Technician/Company <u>SAULT HAWKS</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD TO RECYCLE	

AAA RAMPING

Report must be delivered to Intel EHS upon completion

D. J. M. # 64187

27 RRS-TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>9-21-18</u> Service Date <u>9-21-18</u> Technician/Company <u>GUY HARSO</u>		Comments
<i>Rio Rancho Grease Trap</i>		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Remains Used to Recycle	

Comments
AAA Remains

Report must be delivered to Intel EHS upon completion

D. T. M. # 64187

RR5 TRAP BY CAFEK W
28 Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
9-21-18	9-21-18		
<i>Rio Rancho Grease Trap</i>			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/4 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		
Does grease interceptor need immediate repair?	Yes/No		
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA		
			FLUSHED WITH WATER PUMPING TRAP TO RECYCLE
			NO IN SERVICE, WAITING FOR REPLACEMENT. INTEL DOES HAVE WORK ORDER IN PLACE FOR THE FIX.
			AAA Pumping

Report must be delivered to Intel EHS upon completion

RR5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
64682

WASTE PRODUCER

PRODUCER'S NAME Artel RRS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 10/5/18

ADDRESS 4100 Santa Rd WASTE TYPE: _____

CITY Rio Rancho STATE NM ZIP _____ SAND OR GRIT GREASE

RESPON. PERSON [Signature] DATE 10/5/18 OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 10/5/18 PERMIT NO. _____

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service

10-5-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>35682</u>	<u>10/5/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

MLG

Rio Rancho Grease Trap		Comments
Inspection Date	10-5-18	Service Date 10-5-18 Technician/Company BIKER HARSO AAA PUMP &
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3, Inches	
Depth of Solids	5 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA PUMP & YARD - RECYCLED	

D.T.M. # 104682

RR5 TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Inspection Date <u>10-5-18</u> Service Date <u>10-5-18</u> Technician/Company <u>BILLY HARSO / AAA RAMPING</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

D.T.M. # 64182

27

RR5 TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>10-5-18</u> Service Date <u>10-5-18</u> Technician/Company <u>BELLY HARVEY / AAA Pumping</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/6 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Prior to opening is odor from the interceptor present 10' or greater?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Are the access covers in need of repair?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
FOG Passing by Interceptor?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Does grease interceptor need immediate repair?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Are there signs the grease interceptor walls may be deteriorating?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Are there signs the grease interceptor may be leaking?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Was the grease interceptor pressure washed?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Is there any leakage under the baffle wall?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Was all grease removed from walls, ledges and ridges?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	AAA Pumping
		RRAMPING YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

D.T.M. # 64682

28 RR5 TRAP FROM CHEESE AREA N/A
Rio Rancho, Grease Removal Device Report

Inspection Date <u>10-5-18</u> Service Date <u>10-5-18</u> Technician/Company <u>AAA RAMPING</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	0 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	TRAP IS OUT OF SERVICE
Does grease interceptor need immediate repair?	Yes/No	WAITING FOR INTEL REPAIR
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	WORK WAS APPROVED.
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	WATER ONLY UNTIL RINSED
Location where grease was disposed of:	AAA	RAMPING YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

RR5 Grease Trap Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
64853

WASTE PRODUCER

PRODUCER'S NAME Fateh-RMS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 10/19/18

ADDRESS 4100 Sara RD WASTE TYPE: SAND OR GRIT GREASE

CITY Los Ranchos STATE NM ZIP _____

RESPON. PERSON X [Signature] DATE 10/19/18 OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVERS SIGNATURE X [Signature] DATE 10/19/18 PERMIT NO. B-411

DISPOSAL SITE DATE STAMP _____ **HAULER'S BILLING INFORMATION**

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

DISPOSAL TRIP MANIFEST # 64853
 25 RR5 TRAP AT PAT WASH
 Rio Rancho, Grease Removal Device Report

Inspection Date	10-19-18	Service Date	10-19-18	Technician/Company	Robert Mendoza AAA Services
Rio Rancho Grease Trap					
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches				
Depth of FOG (fats, oils, grease)	3 Inches				
Depth of Solids	1/4 Inches				
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No				
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No				
Are the access covers in need of repair?	Yes/No				
FOG Passing by Interceptor?	Yes/No				
Does grease interceptor need immediate repair?	Yes/No				
Are there signs the grease interceptor walls may be deteriorating?	Yes/No				
Are there signs the grease interceptor may be leaking?	Yes/No				
Was the grease interceptor pressure washed?	Yes/No				
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No				
Is there any leakage under the baffle wall?	Yes/No				
Was all grease removed from walls, ledges and ridges?	Yes/No				
Total Gallons pumped out:	50				
Location where grease was disposed of:	AAA				CAMPING YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

D. I. M. # 64853

RR5 TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date <u>10-19-18</u>	Service Date <u>10-19-18</u>	Technician/Company <u>Robert Houston AAA Pumping</u>
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/6 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

Report must be delivered to Intel EHS upon completion

D.T.M. # 641853
 27 RRS TRAP BY OFFICE
 Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
10-19-18	10-19-18	Rubin Hootch	AAA Pumping
Rio Rancho Grease Trap			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	1/32 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		
Does grease interceptor need immediate repair?	Yes/No		
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA	PUMPING TANK - RECYCLED	

D. T. M # 64853 28 RRS TRAP FROM CHECK AREA N/A
 Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
10-19-18	10-19-18	RUBEN MONTANA AAA RAMPING	
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	3 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		OUT OF SERVICE.
Does grease interceptor need immediate repair?	Yes/No		WAITING FOR REPLACEMENT
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		N/A
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA		RAMPING YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

RRS GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
65034

WASTE PRODUCER

PRODUCER'S NAME Tate1 RRS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 11/2/18

ADDRESS 4100 Sara Ln WASTE TYPE: SAND OR GRIT GREASE

CITY Pio Amcho STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 11/2/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 11/2/18 PERMIT NO. [Signature]

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service
11-2-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
35897	11/2/18	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

Inspection Date <u>11-2-18</u> Service Date <u>11-2-18</u> Technician/Company <u>BUEYARD / PAT RUMPKS</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	RAMPING TRAP - RECYCLED

D.T.M. # 65034

26 RRS TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
11-2-18	11-2-18	BILLY HARRIS	AAA RAMPING
Rio Rancho Grease Trap			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches		
Depth of FOG (fats, oils, grease)	1/16 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		
Does grease interceptor need immediate repair?	Yes/No		
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA		RAMPING TRAP - RECYCLED

Report must be delivered to Intel EHS upon completion

D I M # 65034

27

RFS TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>11-2-18</u> Service Date <u>11-2-18</u> Technician/Company <u>BILLY HARSO/AAA PUMPING</u>	
<i>Rio Rancho Grease Trap</i>	
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches
Depth of FOG (fats, oils, grease)	0 Inches
Depth of Solids	1/4 Inches
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No
Are the access covers in need of repair?	Yes/No
FOG Passing by Interceptor?	Yes/No
Does grease interceptor need immediate repair?	Yes/No
Are there signs the grease interceptor walls may be deteriorating?	Yes/No
Are there signs the grease interceptor may be leaking?	Yes/No
Was the grease interceptor pressure washed?	Yes/No
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No
Is there any leakage under the baffle wall?	Yes/No
Was all grease removed from walls, ledges and ridges?	Yes/No
Total Gallons pumped out:	20
Location where grease was disposed of:	AAA PUMPING TRAP - RECYCLED

Report must be delivered to Intel EHS upon completion

D. I. M. # 657234

28

RR5 TRAP FROM COFFEE AREA
Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
11-2-18	11-2-18	BILLY HANSEN	AAA RUNNING
Rio Rancho Grease Trap			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/4 Inches		COFFEE
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		TRAP NOT IN SERVICE
Does grease interceptor need immediate repair?	Yes/No		WAITING FOR REPLACEMENT.
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA		RUNNING TRAP - RECYCLE

Report must be delivered to Intel EHS upon completion

RR5 GREASE TRAP Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
65018

WASTE PRODUCER

PRODUCER'S NAME Hotel RRS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 11/16/18

ADDRESS 4100 Santa Rd WASTE TYPE: SAND OR GRIT GREASE

CITY La Gracha STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 11/16/18 WASTE TRANSPORTER _____

TRUCK DRIVER'S SIGNATURE [Signature] DATE 11/16/18 PERMIT NO. 01

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service

11-16-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
36038	11/16/18	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

DISPOSAL TRIP MANIFEST # 65818
 25 RRS TRAP BY RST WASH
 Rio Rancho, Grease Removal Device Report

Inspection Date <u>11-16-18</u> Service Date <u>11-16-18</u> Technician/Company <u>BILLY HARVE / AAA PUMPING</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3 1/4 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

D. T. M. # 65718 26 RRS TRAP UNDER TABLE
 Rio Rancho, Grease Removal Device Report

Inspection Date <u>11-16-18</u> Service Date <u>11-16-18</u> Technician/Company <u>Billy Harris AAA Pumping</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/8 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	### # 50 GALLONS	
Location where grease was disposed of:	AAA PUMPS - RECYCLED	

Report must be delivered to Intel EHS upon completion

D.T.M. * 65018

27 RR5 TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>11-16-18</u> Service Date <u>11-16-18</u> Technician/Company <u>BILLY HARSTO / AAA RAMPING</u>		Comments
<i>Rio Rancho Grease Trap</i>		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA RAMPING	RECYCLED

Report must be delivered to Intel EHS upon completion

D.T.M. # 65018

28 RRS TRAP FROM COFFEE NEW
Rio Rancho, Grease Removal Device Report

Inspection Date <u>11-16-18</u> Service Date <u>11-16-18</u> Technician/Company <u>Billy Harris AAA RMPING</u>		Comments
<u>Rio Rancho Grease Trap</u>		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/6 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	

TRAP IS OUT OF SERVICE.

WAITING FOR REPAIR/REPLACEMENT.
PENDING

FLUSHED WITH WATER
AAA RMPING YARD - RECYCLED

RR5 Grease Trap Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
65296

WASTE PRODUCER

PRODUCER'S NAME Fidel RRS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 12/2/18

ADDRESS 4100 Sara Rd WASTE TYPE: SAND OR GRIT GREASE

CITY Rio Rancho STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 12/7/18 WASTE TRANSPORTER _____

TRUCK DRIVER'S SIGNATURE [Signature] DATE 12/7/18 PERMIT NO. P1

DISPOSAL SITE DATE STAMP

AAA Pumping Service
12-7-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>30252</u>	<u>12/7/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST # 65296
 25 RR5 - TRAP 4T POT WASH
 Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap/Interceptor		Comments
Inspection Date 12-7-18	Service Date 12-7-18	Technician/Company BILLY HARSO AAA RAMPING
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

D. I. M. # 65296

RR5- TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap/Interceptor		Comments
Inspection Date 12-7-18	Service Date 12-7-18	Technician/Company BILLY HARSO / AAA Pumping
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/8 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease Interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

D.T.M. # 65894

27 RR5- TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap/Interceptor		Comments
Inspection Date 12-7-18	Service Date 12-7-18	Technician/Company BILLY HARSO AAA Pumping
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/6 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA RAMPING YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

D. 17M. # 652916

28 RR5 - TRAP FROM CHEESE AREA N/A
Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
12-7-18	12-7-18	Billy Harso	AAA Repairing
Rio Rancho Grease Trap/Interceptor			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	0 Inches	WATER	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No	TRAP IS OUT OF SERVICE.	
Does grease interceptor need immediate repair?	Yes/No	WAITING TO BE REPAIRED	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	(FLUSHED WITH WATER ONLY)	
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No	NONE	
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA	RAMPING YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

RR5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
65227

WASTE PRODUCER

PRODUCER'S NAME: Hotel RRS PHONE: _____ DATE OF COLLECTION: 12/21/18

ADDRESS: 4100 Santa Rd GALLONS: 150

CITY: Los Ranchos STATE: NM ZIP: _____ WASTE TYPE: SAND OR GRIT GREASE

RESPON. PERSON: X DATE: 12/21/18 OTHER - DESCRIBE: _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE: [Signature] DATE: 12/21/18 PERMIT NO: Port. 1

DISPOSAL SITE DATE STAMP: _____ HAULER'S BILLING INFORMATION: _____

AAA Pumping Service
12.21.18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>36379</u>	<u>12/21/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

DISPOSAL TRIP MAIN FISH 1652007 25 RR5 TRAP AT PAT WASH
 Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
12-21-18	12-21-18	Billy HANSEN	AAA Pumping
Rio Rancho Grease Trap/Interceptor			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches		
Depth of FOG (fats, oils, grease)	3 Inches		
Depth of Solids	1/32 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		
Does grease interceptor need immediate repair?	Yes/No		
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA		PUMPING YARD, RECYCLED

Report must be delivered to Intel EHS upon completion

D.T.M. # 65987

RR5 TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
12-21-18	12-21-18	BULL HARVE	AAA PUMPING
Rio Rancho Grease Trap/Interceptor			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches		
Depth of FOG (fats, oils, grease)	1/32 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		
Does grease interceptor need immediate repair?	Yes/No		
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA		PUMPING YARD, RECYCLED

Report must be delivered to Intel EHS upon completion

D.T.M. # 65927

27 RR5 TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>12-21-18</u> Service Date <u>12-21-18</u> Technician/Company <u>Billy HARRIS</u> Comments	
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches
Depth of FOG (fats, oils, grease)	0 Inches
Depth of Solids	1/6 Inches
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No
Are the access covers in need of repair?	Yes/No
FOG Passing by Interceptor?	Yes/No
Does grease interceptor need immediate repair?	Yes/No
Are there signs the grease interceptor walls may be deteriorating?	Yes/No
Are there signs the grease interceptor may be leaking?	Yes/No
Was the grease interceptor pressure washed?	Yes/No
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No
Is there any leakage under the baffle wall?	Yes/No
Was all grease removed from walls, ledges and ridges?	Yes/No
Total Gallons pumped out:	20
Location where grease was disposed of:	AAA RAMPING YARD, RECYCLED.

AAA RAMPING

D.T.M. # 65927

RR5 TRAP FROM COFFEE STATION NW
28 Rio Rancho, Grease Removal Device Report

Inspection Date <u>12-21-18</u> Service Date <u>12-21-18</u> Technician/Company <u>Billy Hard AAA Pumping</u>		Comments
Rio Rancho Grease Trap/Interceptor		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	0 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	TRAP IS OUT OF SERVICE AT THIS TIME. WAITING FOR REPLACEMENT
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	(FLUSHED WITH WATER)
Location where grease was disposed of:	AAA	PUMPING YARD, RECYCLED

Report must be delivered to Intel EHS upon completion

ATTACHMENT B

Intel NM TOMP – March 2018 Update



March 28, 2018

Albuquerque Bernalillo County Water Utility Authority
Southside Water Reclamation Facility
4201 2nd Street, SW
Albuquerque, New Mexico 87105
Attn: Merat Zarreii

Re: Toxic Organic (Solvent) Management Plan - Intel Corporation - Permit Number 2021A

Enclosed please find an updated Toxic Organic (Solvent) Management Plan for Intel Corporation as required by Wastewater Discharge Permit Number 2021A, Endorsement TR6. Since it was last submitted as an attachment to Intel's Semi-Annual Report on January 25, 2017, this plan has been modified as follows:

- Section 1: Included 'several computer data centers and various chemical/treatment systems' and excluded 'a large scale computing server farm' in summary of Intel New Mexico's infrastructure.
- Section 3: Specified that all emergency showers are plumbed to Intel's Acid Neutralization Wastewater System prior to discharge.
- Section 4: Specified that bulk liquid chemicals are delivered through double-contained piping to manufacturing areas.

For any additional information or to clarify information submitted, please call Megan Rosebrough at phone number (505) 728-5130, or email at Megan.Rosebrough@intel.com.

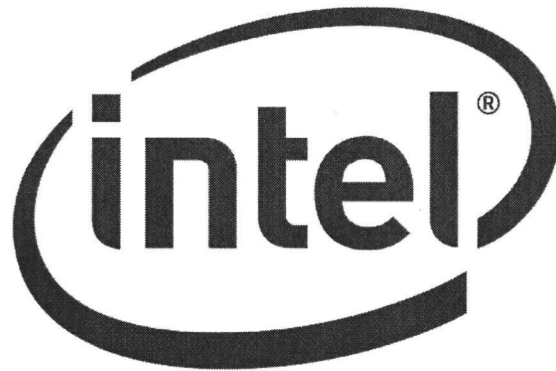
Sincerely,

A handwritten signature in black ink that reads "Mindy Koch". The signature is written in a cursive, flowing style.

Mindy Koch
NM Corporate Services Manager

Enclosure
(EHS016)

**Intel New Mexico
Toxic Organic (Solvent) Management Plan**



Submitted to:

Albuquerque Bernalillo County
Water Utility Authority
Industrial Waste Pretreatment Section

Prepared By:

Intel Corporation
4100 Sara Road
Rio Rancho, New Mexico 87124

2018 Revision

Intel New Mexico
Toxic Organic (Solvent) Management Plan

Table of Contents

1.0 Introduction

2.0 Chemical Use Approval and Control

3.0 Waste Management Practices

4.0 Spill Prevention and Clean Up

Appendix A: Intel Environmental “2020 Goals”

Intel New Mexico Toxic Organic (Solvent) Management Plan

1.0 Introduction

This 2018 update of the Intel New Mexico site Toxic Organic Management Plan (TOMP) is prepared to meet the requirements of Wastewater Industrial Discharge Permit 2021A. Per Endorsement TR6, the Permittee is required to submit a TOMP to the Industrial Waste Engineer every two years, and when changes to the plan occur. The Plan shall identify all toxic organics used onsite, quantities used and stored at the facility, procedures followed to prevent discharge and spills of these materials to the sanitary sewer, and the method of disposal used in place of discharge to the sanitary sewer.

Intel Corporation located at 4100 Sara Road, Rio Rancho, New Mexico 87124 operates a 300 millimeter wafer semiconductor manufacturing facility. The site also operates various chemical labs, modular repair labs, computer labs, several computer data centers, various chemical/treatment systems, and multiple office and support buildings.

Semiconductor manufacturing processes use various organic compounds, generally classified as resists, cleaners/solvents, and etchants. The resists are mixtures of photoactive compounds, resins, and other non-halogenated solvents used to image a circuit pattern onto the Silicon wafer. Cleaning solvents are used to rinse the wafers and clean equipment parts. Common cleaning solvents include Acetone, Isopropyl Alcohol (IPA), Tetramethyl Ammonium Hydroxide (TMAH), Ethylene Glycol (EG), and n-Methyl Pyrrolidone (NMP). Etchants are used to chemically remove unwanted materials from the wafer. The chemical labs use similar chemicals but in limited quantities. Examples of organic etchants used at Intel Rio Rancho include methyl sulfonic acid (MSA), sulfolane, and diethylene glycol monoethyl ether (DGMEE).

The U.S. EPA has promulgated wastewater effluent guidelines for semiconductor manufacturing in 40 CFR 469 Subpart A, which includes a list of Total Toxic Organics (TTOs) for the semiconductor industry. No TTOs listed in 40 CFR 469 Subpart A are used in Intel's manufacturing process in Rio Rancho.

2.0 Chemical Use Approval and Control

Intel maintains a chemical approval process that serves to prevent unauthorized introduction of chemicals at the NM site, thereby keeping them out of wastewater discharged to the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). Every chemical used on site, including those used in the manufacturing process, must be approved by a site Environmental Engineer and Industrial Hygienist. Part of the approval process includes a review of the chemical constituents against various lists of toxic and hazardous chemicals regulated by the EPA, the New Mexico Environment Department (NMED), ABCWUA, and other applicable agencies.

In addition, for process technologies transferred to New Mexico from the process development site are analyzed and vetted based on Intel's "Design for Environment"

Intel New Mexico Toxic Organic (Solvent) Management Plan

(DfE) criteria. This process aims to minimize waste, emissions, water, and energy use with each new process technology. Intel has also implemented a chemical “Green Screen” process that searches for the best environmental alternative for each process chemical with consideration to the process requirements, which Intel will use for 100% of new chemicals and gases used in its process by 2020 (See Appendix A for Intel’s 2020 Environmental Goals). The program aims to use chemicals that have a reduced “cradle to grave” environmental impact during their manufacture, use, and disposal, thus reducing the amount of hazardous wastes generated from the manufacturing process at the source. The screening process is completed before a process technology is finalized and transferred to any of Intel’s High Volume Manufacturing (HVM) sites, including New Mexico.

For non-technology transfer process chemicals, such as pilot chemicals or facilities/maintenance chemicals, a request must be completed and approved at the site level before the new chemical can be brought on site. Intel's Purchasing Department verifies that all chemicals have been approved prior to ordering any chemicals.

Review of new chemicals includes information on the chemical constituents, concentrations, use locations, use type, and material Safety Data Sheet (SDS) content. This information is used to determine waste management, treatment (if applicable), personal protective equipment, and disposal methods.

3.0 Waste Management Practices

Intel's waste/wastewater utilities and collection systems are constructed to ensure proper segregation and treatment of waste and wastewaters. No open trenches or piping cross-connections are allowed between the systems. There are no open floor drains in manufacturing areas except for those directly servicing emergency showers, which are plumbed to the Acid Neutralization Wastewater System prior to discharge. Separate piping and collection systems have been constructed for the following liquid waste streams:

1. Corrosive wastewater
2. Fluoride-bearing wastewater
3. Ammonium Fluoride-bearing wastewater
4. Copper-bearing wastewater
5. General Solvent Waste (GSW)
6. Corrosive Solvent Waste (CSW)
7. Spin-On-Glass Solvent Waste (SOG)

The first four waste streams listed above are treated prior to being discharged to the sanitary sewer. The last three waste streams (5-7) are collected separately in tanks and shipped offsite to an EPA permitted Treatment, Storage, and Disposal Facility (TSDF) via a certified transporter.

All manufacturing and support equipment is evaluated prior to installation to determine the volume and nature of liquid waste, if any. Installations are then made

Intel New Mexico Toxic Organic (Solvent) Management Plan

with drain system hookups to the appropriate treatment or collection system(s) to ensure proper waste segregation. The newly-installed equipment and drain connections are inspected and documented through a formal Equipment Sign-Off process prior to use.

Necessary wastewater treatment systems are installed with each process technology to ensure compliance with all applicable permits and regulations. Intel New Mexico has a robust pretreatment program that treats for wastewater ammonia, fluorides, metals, and elementary neutralization prior to discharge to the POTW. Many of the organic solvents used in the process drain to segregated collection systems and shipped to an approved TSDF for treatment & disposal. This ensures that all wastewater leaving the New Mexico site is well within applicable limits, and impact to the POTW is minimized.

Some liquid organic wastes, such as specialty oils and viscous organic chemicals, are collected in 55-gallon drums. These drums are shipped off-site to an EPA permitted TSDF. All storage facilities have secondary containment systems and are inspected on a weekly basis.

Some organic chemicals that are present in some manufacturing process steps do enter the wastewater system. For example, diethylene glycol monoethyl ether (DGMEE) and sulfolane from the wafer-rinsing baths are drained to the Acid Neutralization Wastewater system. Treatability studies of these and all Intel wastewater pollutants have been completed prior to implementing any new process technology to ensure no issues arise with discharge permit compliance, POTW process upset, or other pertinent concerns.

4.0 Spill Prevention and Clean Up

Bulk liquid chemicals are delivered through double-contained piping to manufacturing areas. There is no underground chemical supply piping at Intel. There are multiple alarmed leak detection systems for immediate notification of spills or releases. Bottled chemicals are transported in carts designed to contain any spill.

Intel maintains Full Time Responder Teams (FRST) and Emergency Response Teams (ERT) assigned to all areas of the site, including manufacturing, support, and office areas. FRST personnel are onsite 24-hours per day and respond within minutes to any spill or emergency situation. Supporting ERT personnel are subject matter experts trained to respond to emergencies and knowledgeable on the hazards in the areas they work.

Wastes generated from all chemical spills, including organic spills, are collected and disposed of in accordance with all applicable regulations. Additionally, secondary containments in chemical docks and loading areas are designed to contain any chemical spill and prevent chemicals from entering the storm water or sanitary sewer systems. Industrial areas that commonly see chemical traffic are sealed with a

Intel New Mexico

Toxic Organic (Solvent) Management Plan

Chemical Resistant Coating (CRC) to contain all chemical spills and prevent degradation of the outside surface or inside flooring.

Appendix A: Intel Environmental “2020 Goals”, 2016 Corporate Responsibility Report

GOALS FOR 2017 AND BEYOND

Environmental Sustainability

Reduce direct greenhouse gas (GHG) emissions by 10% on a per unit basis by 2020 from 2010 levels.

Grow the installation and use of on-site alternative energy to three times our 2015 levels by 2020.

Continue 100% green power in our U.S. operations and increase alternative energy use for our international operations from 2015 to 2020.

Achieve cumulative energy savings of 4 billion kWh from 2012 to 2020.

Increase the energy efficiency of notebook computers and data center products 25x by 2020 from 2010 levels.¹

Implement an enhanced green chemistry screening and selection process for 100% of new chemicals and gases by 2020.

Reduce water use on a per unit basis below 2010 level by 2020.

Achieve zero hazardous waste to landfill by 2020.

Achieve a 90% non-hazardous waste recycling rate by 2020.

Design all new buildings to a minimum LEED* Gold certification between 2015 and 2020.

<https://www.intel.com/content/www/us/en/corporate-responsibility/corporate-responsibility.html>

<https://www.intel.com/content/www/us/en/environment/water-restoration.html>

ATTACHMENT C

Monthly Indium Gallium Sampling Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-111694-1

Client Project/Site: Monthly Gallium/Indium

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

7/17/2018 12:46:31 PM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?



Visit us at:

www.testamericainc.com

Gallium Indium Outfall 7-17-2018_July

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Job ID: 280-111694-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/Indium

Report Number: 280-111694-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/6/2018 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample JUL-IND (280-111694-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/11/2018 and analyzed on 07/12/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Client Sample ID: JUL-GAL

Lab Sample ID: 280-111694-1

No Detections.

Client Sample ID: JUL-IND

Lab Sample ID: 280-111694-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indium	0.044	J	0.50	0.026	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver



Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-111694-1	JUL-GAL	Water	07/05/18 09:00	07/06/18 09:25
280-111694-2	JUL-IND	Water	07/05/18 09:00	07/06/18 09:25

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Method: 6010C - Metals (ICP)

Client Sample ID: JUL-IND
Date Collected: 07/05/18 09:00
Date Received: 07/06/18 09:25

Lab Sample ID: 280-111694-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.044	J	0.50	0.026	mg/L		07/11/18 08:10	07/12/18 14:23	1

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QC Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-209036/1-A
Matrix: Water
Analysis Batch: 209323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 209036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		07/11/18 08:09	07/12/18 14:16	1

Lab Sample ID: LCS 310-209036/2-A
Matrix: Water
Analysis Batch: 209323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 209036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	1.95		mg/L		98	80 - 120

Lab Sample ID: 280-111694-2 MS
Matrix: Water
Analysis Batch: 209323

Client Sample ID: JUL-IND
Prep Type: Total/NA
Prep Batch: 209036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	0.044	J	2.00	2.01		mg/L		98	75 - 125

Lab Sample ID: 280-111694-2 MSD
Matrix: Water
Analysis Batch: 209323

Client Sample ID: JUL-IND
Prep Type: Total/NA
Prep Batch: 209036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	0.044	J	2.00	1.96		mg/L		96	75 - 125	3	20

TestAmerica Denver

QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Metals

Prep Batch: 209036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111694-2	JUL-IND	Total/NA	Water	3010A	
MB 310-209036/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-209036/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-111694-2 MS	JUL-IND	Total/NA	Water	3010A	
280-111694-2 MSD	JUL-IND	Total/NA	Water	3010A	

Analysis Batch: 209323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111694-2	JUL-IND	Total/NA	Water	6010C	209036
MB 310-209036/1-A	Method Blank	Total/NA	Water	6010C	209036
LCS 310-209036/2-A	Lab Control Sample	Total/NA	Water	6010C	209036
280-111694-2 MS	JUL-IND	Total/NA	Water	6010C	209036
280-111694-2 MSD	JUL-IND	Total/NA	Water	6010C	209036

Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-111694-1

Client Sample ID: JUL-IND

Date Collected: 07/05/18 09:00

Date Received: 07/06/18 09:25

Lab Sample ID: 280-111694-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	209036	07/11/18 08:10	JNR	TAL CF
Total/NA	Analysis	6010C		1			209323	07/12/18 14:23	SAD	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1807333

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.: 280-111694-1

Project: 28003759; Monthly Gallium/Indium

Project Received: 07/10/2018

Analytical Report reviewed & approved for release on 07/16/2018 by:

Yen Cao

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Monthly Gallium/Indium
WorkOrder: 1807333

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Quality Control Qualifiers

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.



Analytical Report

Client: TestAmerica Denver

WorkOrder: 1807333

Date Received: 7/10/18 9:56

Extraction Method: SW3050B

Date Prepared: 7/10/18

Analytical Method: SW6010B

Project: 28003759; Monthly Gallium/Indium

Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
JUL-GAL (280-111694-1)	1807333-001A	Water	07/05/2018 09:00	ICP-OES 35	161208

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	3.4	50	1	07/11/2018 14:22

Surrogates	REC (%)	Limits
Terbium	105	70-130

Analyst(s): ND



Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1807333
Date Prepared:	7/10/18	BatchID:	161208
Date Analyzed:	7/11/18	Extraction Method:	SW3050B
Instrument:	ICP-OES	Analytical Method:	SW6010B
Matrix:	Water	Unit:	µg/L
Project:	28003759; Monthly Gallium/Indium	Sample ID:	MB/LCS/LCSD-161208 1807333-001AMS/MSD

QC SUMMARY REPORT FOR SW6010B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	3.4	50	-	-	-

Surrogate Recovery

Terbium	800			750	107	85-115
---------	-----	--	--	-----	-----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	985	984	1000	99	98	85-115	0.0934	20

Surrogate Recovery

Terbium	799	789	750	107	105	70-130	1.35	20
---------	-----	-----	-----	-----	-----	--------	------	----

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1060	1040	1000	ND	106	105	70-130	0.959	20

Surrogate Recovery

Terbium	805	807	750		107	108	70-130	0.198	20
---------	-----	-----	-----	--	-----	-----	--------	-------	----

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<250	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1807333

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party:
PO: 280-111694-1
Project: 28003759; Monthly Gallium/Indium

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 07/10/2018

Date Logged: 07/10/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1807333-001	JUL-GAL (280-111694-1)	Water	7/5/2018 09:00	<input type="checkbox"/>	A													

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Monthly Gallium/Indium

Work Order: 1807333

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 7/10/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1807333-001A	JUL-GAL (280-111694-1)	Water	SW6010B (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	7/5/2018 9:00	5 days	Trace	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



1807333

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)				Sampler:		Lab PM: Bindel, DiLea R		Carrier Tracking No(s):		COC No: 280-446090.1			
Client Contact: Shipping/Receiving				Phone:		E-Mail: dilea.bindel@testamericainc.com		State of Origin: New Mexico		Page: Page 1 of 1			
Company: McCambell Analytical, Inc.				Accreditations Required (See note):						Job #: 280-111694-1			
Address: 1534 Willow Pass Road, City: Pittsburg State, Zip: CA, 94565 Phone: Email:				Due Date Requested: 7/18/2018		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Project Name: Monthly Gallium/Indium				TAT Requested (days):									
Site:				PO #:		WO #:		Field Filtered Sample (Yes or No)		Total Number of containers			
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
JUL-GAL (280-111694-1)				7/5/18		09:00 Mountain		Water		2			
Preservation Code:				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SUB (Gallium - McCambell Analytical, Inc.) 6070B		Gallium			
Special Instructions/Note:													

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Diana Castro</i>		Date/Time: 7-9-18 1500		Company: <i>IAI</i>		Received by: <i>Fedex 44670895</i>	
Relinquished by: <i>Fedex</i>		Date/Time:		Company:		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Monthly Gallium/Indium**

WorkOrder No: **1807333** Matrix: Water
Carrier: FedEx

Date and Time Received **7/10/2018 09:56**
Date Logged: **7/10/2018**
Received by: **Jena Alfaro**
Logged by: **Jena Alfaro**

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No
- COC agrees with Quote? Yes No NA

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No NA
- Samples Received on Ice? Yes No
- Sample/Temp Blank temperature Temp: NA
- Water - VOA vials have zero headspace / no bubbles? Yes No NA
- Sample labels checked for correct preservation? Yes No
- pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
- UCMR Samples:**
- pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes No NA
- Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes No NA

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-111694-1

Login Number: 111694

List Source: TestAmerica Denver

List Number: 1

Creator: Quint, Jessica A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-111694-1

Login Number: 111694

List Number: 2

Creator: Bindert, Lindsay A

List Source: TestAmerica Cedar Falls

List Creation: 07/10/18 12:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Chain of Custody Record

Client Information Client Contact: Carrie Weitz / Megan Rosebrough Company: Intel Corporation		Lab PM: Bindel, Dilca R. E-Mail: dilca.bindel@testamericainc.com		Carmer Tracking No(s): Page: _____ of _____ Job #: _____	
Address: 4100 Sara Road Mail Stop RR5-465 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: carrie.a.weitz@intel.com Project Name: Monthly Gallium/Indium Site: NEW MEXICO		Due Date Requested: TAT Requested (days): 10 Business Days PO #: W/O #: Project #: 28003759 SSOW#:		Analysis Requested Total Number of Containers: _____ Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Identification Jul-GAL Jul-IND		Sample Date 7/5/18 7/5/18	Sample Time 0900 0900	Sample Type (C=comp, G=grab) C C	Matrix (W=water, S=solid, O=organic) W W
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note: 6010B Gallium sub to McCampbell Analytical 6010C Indium sub to TA-Cedar Falls	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: <i>Then Hold</i>		Special Instructions/QC Requirements:	
Relinquished by: <i>K. Weitz</i>		Date/Time: 7-18 / 1 PM		Time: 11:30	
Relinquished by:		Date/Time:		Method of Shipment: <i>Fedex</i>	
Relinquished by:		Date/Time:		Date/Time: 7/16/18 05:05	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seal No.: <i>NO CUSTODY SEAL</i>		Cooler Temperature(s) °C and Other Remarks: 1.0 to 0.0 fresh JTA		Company: <i>ADENA</i>	





Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: TA Denver	
City/State: CO Arvada CO	Project: Monthly Gallium/Indium
Receipt Information	
Date/Time Received: 7-10-18 940	Received By: JLP
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID: _____
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler # _____ of _____
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓
Temperature Record	
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE	
Thermometer ID: J	Correction Factor (°C): +0.1
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C): 24.1	Corrected Temp (°C): 24.2
• Sample Container Temperature	
Container type(s) used: _____	
Uncorrected Temp (°C): _____	Corrected Temp (°C): _____
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	



Client Information (Sub Contract Lab) Shipping/Receiving Company: TestAmerica Laboratories, Inc Address: 704 Enterprise Drive, City: Cedar Falls State, Zip: IA, 50613 Phone: 319-277-2401(Tel) 319-277-2425(Fax) Email: Project Name: Monthly Gallium/Indium Site:			Sampler: Lab PM: Bindel, DiLea R E-Mail: dilea.bindel@testamericainc.com Carrier Tracking No(s): State of Origin: New Mexico Page: Page 1 of 1 Job #: 280-111694-1 COC No: 280-446092.1							
Due Date Requested: 7/18/2018 TAT Requested (days): PO #: WO #: Project #: 28003759 SSOW#:			Accreditations Required (See note): Analysis Requested M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:							
Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	6010C/3010A (MOD) 6010C Indium	Total Number of Containers	Special Instructions/Note:
JUL-IND (280-111694-2)	7/15/18	09:00 Mountain		Water		X	X	X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date:
 Relinquished by: 7-9-18 1540 Company: THL
 Relinquished by: Date/Time:
 Relinquished by: Date/Time:
 Relinquished by: Date/Time:
 Custody Seals Intact: Custody Seal No.:
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Method of Shipment:
 Time:
 Received by: Sunday Bindel Date/Time: 7/10/18 9:40 Company:
 Received by: Date/Time: Company:
 Received by: Date/Time: Company:
 Cooler Temperature(s) °C and Other Remarks:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-112758-1

Client Project/Site: Monthly Gallium/Indium

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

8/21/2018 4:55:27 PM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

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Gallium Indium Outfall 9-5-2018_Aug

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Job ID: 280-112758-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/Indium

Report Number: 280-112758-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 8/2/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample AUG-IND (280-112758-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/09/2018 and analyzed on 08/15/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Client Sample ID: AUG-GAL

Lab Sample ID: 280-112758-1

No Detections.

Client Sample ID: AUG-IND

Lab Sample ID: 280-112758-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indium	0.034	J	0.50	0.026	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

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Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-112758-1	AUG-GAL	Water	08/01/18 09:00	08/02/18 09:10
280-112758-2	AUG-IND	Water	08/01/18 09:00	08/02/18 09:10

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Method: 6010C - Metals (ICP)

Client Sample ID: AUG-IND
Date Collected: 08/01/18 09:00
Date Received: 08/02/18 09:10

Lab Sample ID: 280-112758-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.034	J	0.50	0.026	mg/L		08/09/18 08:11	08/15/18 12:17	1

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QC Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-211939/1-A
Matrix: Water
Analysis Batch: 212563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		08/09/18 08:11	08/15/18 12:14	1

Lab Sample ID: LCS 310-211939/2-A
Matrix: Water
Analysis Batch: 212563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	2.02		mg/L		101	80 - 120

Lab Sample ID: 280-112758-2 MS
Matrix: Water
Analysis Batch: 212563

Client Sample ID: AUG-IND
Prep Type: Total/NA
Prep Batch: 211939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	0.034	J	2.00	1.99		mg/L		98	75 - 125

Lab Sample ID: 280-112758-2 MSD
Matrix: Water
Analysis Batch: 212563

Client Sample ID: AUG-IND
Prep Type: Total/NA
Prep Batch: 211939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	0.034	J	2.00	1.94		mg/L		95	75 - 125	3	20

Lab Sample ID: 310-136334-A-7-B DU
Matrix: Water
Analysis Batch: 212563

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 211939

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Indium	ND		ND		mg/L		NC	20

QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Metals

Prep Batch: 211939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-112758-2	AUG-IND	Total/NA	Water	3010A	
MB 310-211939/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-211939/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-112758-2 MS	AUG-IND	Total/NA	Water	3010A	
280-112758-2 MSD	AUG-IND	Total/NA	Water	3010A	
310-136334-A-7-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 212563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-112758-2	AUG-IND	Total/NA	Water	6010C	211939
MB 310-211939/1-A	Method Blank	Total/NA	Water	6010C	211939
LCS 310-211939/2-A	Lab Control Sample	Total/NA	Water	6010C	211939
280-112758-2 MS	AUG-IND	Total/NA	Water	6010C	211939
280-112758-2 MSD	AUG-IND	Total/NA	Water	6010C	211939
310-136334-A-7-B DU	Duplicate	Total/NA	Water	6010C	211939

Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-112758-1

Client Sample ID: AUG-IND

Date Collected: 08/01/18 09:00

Date Received: 08/02/18 09:10

Lab Sample ID: 280-112758-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	211939	08/09/18 08:11	JNR	TAL CF
Total/NA	Analysis	6010C		1			212563	08/15/18 12:17	CJT	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1808322

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.:

Project: 28003759; Monthly Gallium/Indium

Project Received: 08/08/2018

Analytical Report reviewed & approved for release on 08/14/2018 by:

Jennifer Lagerbom

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Monthly Gallium/Indium
WorkOrder: 1808322

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 8/8/18 9:56
Date Prepared: 8/8/18
Project: 28003759; Monthly Gallium/Indium

WorkOrder: 1808322
Extraction Method: E200.7
Analytical Method: E200.7
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AUG-GAL (280-112758-1)	1808322-001A	Water	08/01/2018 09:00	ICP-OES 28	162867
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	08/09/2018 16:02
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Terbium	103	70-130			08/09/2018 16:02
<u>Analyst(s):</u> ND					





Quality Control Report

Client: TestAmerica Denver
Date Prepared: 8/7/18
Date Analyzed: 8/8/18
Instrument: ICP-OES
Matrix: Water
Project: 28003759; Monthly Gallium/Indium

WorkOrder: 1808322
BatchID: 162867
Extraction Method: E200.7
Analytical Method: E200.7
Unit: µg/L
Sample ID: MB/LCS/LCSD-162867

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	3.4	50	-	-	-
Surrogate Recovery						
Terbium	788			750	105	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	973	963	1000	97	96	85-115	1.04	20
Surrogate Recovery								
Terbium	791	780	750	106	104	70-130	1.41	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1808322

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party:
PO:
Project: 28003759; Monthly Gallium/Indium

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 4 days;

Date Received: 08/08/2018

Date Logged: 08/08/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1808322-001	AUG-GAL (280-112758-1)	Water	8/1/2018 09:00	<input type="checkbox"/>	A													

Test Legend:

1	METALS_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Nancy Palacios

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Monthly Gallium/Indium

Work Order: 1808322

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 8/8/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808322-001A	AUG-GAL (280-112758-1)	Water	E200.7 (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	8/1/2018 9:00	4 days	Present	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1808322



Client Information (Sub Contract Lab)		Lab PM: Bindel, DiLea R	Carrier Tracking No(s): 280-449916.1
Client Contact: Shipping/Receiving		E-Mail: dilea.bindel@testamericainc.com	Page: 1 of 1
Company: McCambell Analytical, Inc.		Accreditations Required (See note):	Job #: 280-112758-1
Address: 1534 Willow Pass Road,		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid I - Ice J - DI Water U - Acetone K - EDTA V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:	
City: Pittsburg		Analysis Requested	
State, Zip: CA, 94565		Total Number of containers	
Phone:		Field Filtered Sample (Yes or No)	
Email:		Perform MS/MSD (Yes or No)	
Project #: 28003759		SUB (Gallium - McCambell Analytical, Inc.) / 6010B	
Site: Monthly Gallium/Indium		Gallium	
Sample Identification - Client ID (Lab ID)		X	
AUG-GAL (280-112758-1)		X	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)
8/1/18	09:00 Mountain		Water
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis:matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>			
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Primary Deliverable Rank: 2</p> <p>Special Instructions/QC Requirements:</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>			
Empty Kit Relinquished by:		Method of Shipment:	
Date:		Time:	
Relinquished by: <i>Wally...</i>		Date/Time: 8/10/18 14:15	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:		Company: TADEN	
		Company: TADEN	
		Company: TADEN	
		Date/Time: 8/8/18 09:58	
		Date/Time: 8/8/18 09:58	
		Date/Time: 8/8/18 09:58	



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Monthly Gallium/Indium**

WorkOrder No: **1808322** Matrix: Water
Carrier: FedEx

Date and Time Received: **8/8/2018 09:56**
Date Logged: **8/8/2018**
Received by: Nancy Palacios
Logged by: Nancy Palacios

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 5.1°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-112758-1

Login Number: 112758

List Source: TestAmerica Denver

List Number: 1

Creator: Quint, Jessica A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	False	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-112758-1

Login Number: 112758

List Number: 2

Creator: Homolar, Dana J

List Source: TestAmerica Cedar Falls

List Creation: 08/06/18 07:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Chain of Custody Record

Client Information Intel Corporation Address: 4100 Sara Road Mail Stop RR5-465 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: carrie.a.weitz@intel.com Project Name: Monthly Gallium/Indium Site: NM		Lab PM: Bindel, DiLea R. E-Mail: dilea.bindel@testamericainc.com Carrier Tracking No(s): Lab No: _____ Page _____ of _____ Job #: _____	
Due Date Requested: TAT Requested (days): 10 Business Days PO #: _____ WO #: _____ Project #: 28003759 SSOW#: _____		Analysis Requested 6010B - Gallium (McCampbell Analytical) <input checked="" type="checkbox"/> 6010C - Indium (TA Cedar Falls) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers: _____	
Sample Identification AUG-GAL AUG-IND		Matrix (Water, Seawater, Wastewater, Other) Sample Type (C=Comp, G=grab) Sample Date Sample Time Preservation Code:	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: Ken Weitz Date/Time: 8-1-18 9AM Company: LAUREL		Received by: [Signature] Date/Time: 8/2/18 0910 Company: ADEN	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 54019		Cooler Temperature(s) °C and Other Remarks: 1.4 20.0 JAR	





Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: TA DENVER	
City/State: <u>Arvada</u> <u>CO</u>	Project: <u>Monthly Gallium</u>
Receipt Information	
Date/Time Received: <u>8/4/18</u> <u>920</u>	Received By: <u>LAB</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <u>SAT</u> <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # ____ of ____</i>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE	
Thermometer ID: <u>K</u>	Correction Factor (°C): <u>0.0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C): <u>1.8</u>	Corrected Temp (°C): <u>1.8</u>
• Sample Container Temperature	
Container type(s) used:	
Uncorrected Temp (°C):	Corrected Temp (°C):
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-114255-1
Client Project/Site: Monthly Gallium/Indium

For:
Intel Corporation
4100 Sara Road
Mail Stop RR5-491
Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:
9/21/2018 2:46:48 PM

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

Gallium Indium Outfall 10-5-2018_Sept

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Job ID: 280-114255-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/Indium

Report Number: 280-114255-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/13/2018 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample SEP IND (280-114255-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 09/17/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Client Sample ID: SEP GAL

Lab Sample ID: 280-114255-1

No Detections.

Client Sample ID: SEP IND

Lab Sample ID: 280-114255-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indium	0.062	J	0.50	0.026	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

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Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-114255-1	SEP GAL	Water	09/12/18 10:00	09/13/18 09:20
280-114255-2	SEP IND	Water	09/12/18 10:00	09/13/18 09:20

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Method: 6010C - Metals (ICP)

Client Sample ID: SEP IND
Date Collected: 09/12/18 10:00
Date Received: 09/13/18 09:20

Lab Sample ID: 280-114255-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.062	J	0.50	0.026	mg/L		09/17/18 08:50	09/17/18 21:00	1

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QC Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-215804/1-A
Matrix: Water
Analysis Batch: 216011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		09/17/18 08:50	09/17/18 20:56	1

Lab Sample ID: LCS 310-215804/2-A
Matrix: Water
Analysis Batch: 216011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	2.06		mg/L		103	80 - 120

Lab Sample ID: 310-139195-A-2-A MS
Matrix: Water
Analysis Batch: 216011

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 215804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	ND		2.00	2.07		mg/L		103	75 - 125

Lab Sample ID: 310-139195-C-2-B MSD
Matrix: Water
Analysis Batch: 216011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 215804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	ND		2.00	2.07		mg/L		104	75 - 125	0	20

TestAmerica Denver

QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Metals

Prep Batch: 215804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114255-2	SEP IND	Total/NA	Water	3010A	
MB 310-215804/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-215804/2-A	Lab Control Sample	Total/NA	Water	3010A	
310-139195-A-2-A MS	Matrix Spike	Total/NA	Water	3010A	
310-139195-C-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 216011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114255-2	SEP IND	Total/NA	Water	6010C	215804
MB 310-215804/1-A	Method Blank	Total/NA	Water	6010C	215804
LCS 310-215804/2-A	Lab Control Sample	Total/NA	Water	6010C	215804
310-139195-A-2-A MS	Matrix Spike	Total/NA	Water	6010C	215804
310-139195-C-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	215804

Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-114255-1

Client Sample ID: SEP IND

Lab Sample ID: 280-114255-2

Date Collected: 09/12/18 10:00

Matrix: Water

Date Received: 09/13/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	215804	09/17/18 08:50	JNR	TAL CF
Total/NA	Analysis	6010C		1			216011	09/17/18 21:00	CTB	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1809535

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.: 280-114255-1

Project: 28003759; Monthly Gallium/Indium

Project Received: 09/14/2018

Analytical Report reviewed & approved for release on 09/21/2018 by:

Yen Cao

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Monthly Gallium/Indium
WorkOrder: 1809535

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 9/14/18 9:25
Date Prepared: 9/14/18
Project: 28003759; Monthly Gallium/Indium

WorkOrder: 1809535
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SEP GAL (280-114255-1)	1809535-001A	Water	09/12/2018 10:00	ICP-OES 24	164925
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	1.8	20	1	09/18/2018 13:12
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Terbium	103	70-130			09/18/2018 13:12
<u>Analyst(s):</u> DB					





Quality Control Report

Client: TestAmerica Denver
Date Prepared: 9/14/18
Date Analyzed: 9/18/18
Instrument: ICP-OES
Matrix: Water
Project: 28003759; Monthly Gallium/Indium

WorkOrder: 1809535
BatchID: 164925
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L
Sample ID: MB/LCS/LCSD-164925
 1809535-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	1.8	20	-	-	-

Surrogate Recovery

Terbium	793			750	106	70-130
---------	-----	--	--	-----	-----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	900	920	1000	90	92	85-115	2.23	20

Surrogate Recovery

Terbium	744	757	750	99	101	70-130	1.66	20
---------	-----	-----	-----	----	-----	--------	------	----

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1	1040	1050	1000	ND	104	105	70-130	0.798	20

Surrogate Recovery

Terbium	1	792	789	750		106	105	70-130	0.359	20
---------	---	-----	-----	-----	--	-----	-----	--------	-------	----

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<100	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1809535

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party:
PO: 280-114255-1
Project: 28003759; Monthly Gallium/Indium

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 09/14/2018

Date Logged: 09/14/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1809535-001	SEP GAL (280-114255-1)	Water	9/12/2018 10:00	<input type="checkbox"/>	A													

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Monthly Gallium/Indium

Work Order: 1809535

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 9/14/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1809535-001A	SEP GAL (280-114255-1)	Water	SW6010B (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	9/12/2018 10:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Monthly Gallium/Indium**

WorkOrder No: **1809535** Matrix: Water
Carrier: FedEx

Date and Time Received: **9/14/2018 09:25**
Date Logged: **9/14/2018**
Received by: **Jena Alfaro**
Logged by: **Jena Alfaro**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature		Temp: 4.3°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-114255-1

Login Number: 114255

List Source: TestAmerica Denver

List Number: 1

Creator: Quint, Jessica A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-114255-1

Login Number: 114255

List Number: 2

Creator: Bindert, Lindsay A

List Source: TestAmerica Cedar Falls

List Creation: 09/14/18 01:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Chain of Custody Record

Client Information Client Contact: Carrie Weitz / Megan Rosebrough Company: Intel Corporation Address: 4100 Sara Road Mail Stop RRS-465 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: carrie.a.weitz@intel.com Project Name: Monthly Gallium/Indium Site: NEW MEXICO		Lab PM: Bindel, DiLea R. E-Mail: dilea.bindel@testamericainc.com Sample: <i>[Signature]</i> Phone: 505-941-7797		Carrier Tracking Nb(s): COC No: Page: _____ of _____ Job #: _____	
Due Date Requested: TAT Requested (days): 10 Business Days		Analysis Requested			
PO #: WO #: Project #: 28003759 SSO#:		Total Number of containers: <input checked="" type="checkbox"/>			
Sample Identification SEP GAL SEP IND		Sample Date 9/18/18 9/18/18		Sample Type (C=Comp, G=grab) C C	
Matrix (W=water, S=solid, O=oil, BT=BTASU, A=AV)		Preservation Code: C W C W		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		6010B - Gallium (McC Campbell Analytical) <input checked="" type="checkbox"/>		6010C - Indium (TA Cedar Falls) <input checked="" type="checkbox"/>	
Special Instructions/Note: 6010B Gallium sub to McC Campbell Analytical 6010C Indium sub to TA-Cedar Falls		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/OC Requirements: 280-114255 Chain of Custody					
Empty Kit Relinquished by: New Cream		Date: 9/12/18/2PM		Method of Shipment:	
Relinquished by: New Cream		Date/Time: 9/18/18		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 645758		Cooler Temperature(s) °C and Other Remarks: 3.5 to 15.5 F in shade	





Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: TA Denver	
City/State: Anyada CO	Project: monthly gallium/indium
Receipt Information	
Date/Time Received: 9/14/18 950	Received By: LAB
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # ____ of ____</i>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler custody seals intact?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE	
Thermometer ID: J	Correction Factor (°C): +0.1
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C): 0.7	Corrected Temp (°C): 0.8
• Sample Container Temperature	
Container type(s) used:	
Uncorrected Temp (°C):	Corrected Temp (°C):
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



Client Information (Sub Contract Lab) Company: TestAmerica Laboratories, Inc Address: 704 Enterprise Drive, Cedar Falls, IA, 50613 Phone: 319-277-2401 (Tel) 319-277-2425 (Fax) Email: Project Name: Monthly Gallium/Indium Project #: 28003759 Site:		Lab PM: Bindel, DiLea R E-Mail: dilea.bindel@testamericainc.com State of Origin: New Mexico Carrier Tracking No(s): Page: Page 1 of 1 Job #: 280-114255-1 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Information Sampler: Bindel, DiLea R Due Date Requested: 9/25/2018 TAT Requested (days): PO #: 6010C/3010A (MOD) 6010C Indium WO #: X Project #: 28003759 SSOW#:		Analysis Requested Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> X Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> X Total Number of Containers 2 Special Instructions/Note:	
Sample Identification - Client ID (Lab ID) SEP IND (280-114255-2)		Matrix (W=water, S=solid, O=oil, B=BT, T=tissue, A=air) Sample Type (C=comp, G=grab) Sample Time: 10:00 Mountain Sample Date: 9/12/18 Preservation Code: Water	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>			
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by:			
Relinquished by: <i>Diana Castro</i> Relinquished by:		Received by: <i>Sandy Bindel</i> Received by:	
Date: 9-13-18 15:45 Date/Time:		Date/Time: 9/14/18 9:50 Date/Time:	
Company: <i>Castro</i> Company:		Company: <i>TRACF</i> Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:			



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-115419-1
Client Project/Site: Monthly Gallium/Indium

For:
Intel Corporation
4100 Sara Road
Mail Stop RR5-491
Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:
10/24/2018 8:23:25 PM

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

Gallium Indium Outfall 10-29-2018_Oct

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Job ID: 280-115419-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/Indium

Report Number: 280-115419-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/11/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample OCT-02 (280-115419-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/16/2018 and analyzed on 10/22/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Client Sample ID: OCT-01

Lab Sample ID: 280-115419-1

No Detections.

Client Sample ID: OCT-02

Lab Sample ID: 280-115419-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indium	0.084	J	0.50	0.026	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

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Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-115419-1	OCT-01	Water	10/10/18 09:00	10/11/18 09:10
280-115419-2	OCT-02	Water	10/10/18 09:00	10/11/18 09:10

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Method: 6010C - Metals (ICP)

Client Sample ID: OCT-02
Date Collected: 10/10/18 09:00
Date Received: 10/11/18 09:10

Lab Sample ID: 280-115419-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.084	J	0.50	0.026	mg/L		10/16/18 08:18	10/22/18 22:41	1

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QC Sample Results

Client: Intel Corporation
 Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-219100/1-A
 Matrix: Water
 Analysis Batch: 219912

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 219100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		10/16/18 08:18	10/22/18 22:37	1

Lab Sample ID: LCS 310-219100/2-A
 Matrix: Water
 Analysis Batch: 219912

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 219100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	2.08		mg/L		104	80 - 120

Lab Sample ID: 280-115419-2 MS
 Matrix: Water
 Analysis Batch: 219912

Client Sample ID: OCT-02
 Prep Type: Total/NA
 Prep Batch: 219100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	0.084	J	2.00	2.10		mg/L		101	75 - 125

Lab Sample ID: 280-115419-2 MSD
 Matrix: Water
 Analysis Batch: 219912

Client Sample ID: OCT-02
 Prep Type: Total/NA
 Prep Batch: 219100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	0.084	J	2.00	2.09		mg/L		100	75 - 125	1	20

QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Metals

Prep Batch: 219100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-115419-2	OCT-02	Total/NA	Water	3010A	
MB 310-219100/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-219100/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-115419-2 MS	OCT-02	Total/NA	Water	3010A	
280-115419-2 MSD	OCT-02	Total/NA	Water	3010A	

Analysis Batch: 219912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-115419-2	OCT-02	Total/NA	Water	6010C	219100
MB 310-219100/1-A	Method Blank	Total/NA	Water	6010C	219100
LCS 310-219100/2-A	Lab Control Sample	Total/NA	Water	6010C	219100
280-115419-2 MS	OCT-02	Total/NA	Water	6010C	219100
280-115419-2 MSD	OCT-02	Total/NA	Water	6010C	219100

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Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-115419-1

Client Sample ID: OCT-02

Date Collected: 10/10/18 09:00

Date Received: 10/11/18 09:10

Lab Sample ID: 280-115419-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	219100	10/16/18 08:18	JNR	TAL CF
Total/NA	Analysis	6010C		1			219912	10/22/18 22:41	CTB	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1810716

Report Created for: TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel
Project P.O.: 280-115419-1
Project: 28003759; Monthly Gallium/Indium

Project Received: 10/15/2018

Analytical Report reviewed & approved for release on 10/19/2018 by:

Jennifer Lagerbom
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Monthly Gallium/Indium
WorkOrder: 1810716

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 10/15/18 10:01
Date Prepared: 10/15/18
Project: 28003759; Monthly Gallium/Indium

WorkOrder: 1810716
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
OCT-01 (280-115419-1)	1810716-001A	Water	10/10/2018 09:00	ICP-OES 12	166600
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	1.8	20	1	10/16/2018 11:33
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Terbium	105	70-130			10/16/2018 11:33
<u>Analyst(s):</u>	ND				





Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1810716
Date Prepared:	10/15/18	BatchID:	166600
Date Analyzed:	10/16/18	Extraction Method:	SW3050B
Instrument:	ICP-OES	Analytical Method:	SW6010B
Matrix:	Water	Unit:	µg/L
Project:	28003759; Monthly Gallium/Indium	Sample ID:	MB/LCS/LCSD-166600 1810716-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	1.8	20	-	-	-

Surrogate Recovery

Terbium	520			500	105	70-130
---------	-----	--	--	-----	-----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	970	960	1000	97	96	85-115	1.05	20

Surrogate Recovery

Terbium	520	520	500	104	103	70-130	1.13	20
---------	-----	-----	-----	-----	-----	--------	------	----

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1	1100	1100	1000	ND	107	107	70-130	0	20

Surrogate Recovery

Terbium	1	540	540	500		108	108	70-130	0	20
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Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<100	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1810716

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party:
PO: 280-115419-1
Project: 28003759; Monthly Gallium/Indium

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 10/15/2018

Date Logged: 10/15/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12			
1810716-001	OCT-01 (280-115419-1)	Water	10/10/2018 09:00	<input type="checkbox"/>	A														

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.





WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Monthly Gallium/Indium

Work Order: 1810716

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 10/15/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810716-001A	OCT-01 (280-115419-1)	Water	SW6010B (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	10/10/2018 9:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Monthly Gallium/Indium**

WorkOrder №: **1810716** Matrix: Water
Carrier: FedEx

Date and Time Received **10/15/2018 10:01**
Date Logged: **10/15/2018**
Received by: **Jena Alfaro**
Logged by: **Jena Alfaro**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 14.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-115419-1

Login Number: 115419

List Source: TestAmerica Denver

List Number: 1

Creator: Rhoades, Joseph P

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-115419-1

Login Number: 115419

List Number: 2

Creator: Spoerre, Autumn R

List Source: TestAmerica Cedar Falls

List Creation: 10/15/18 01:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Chain of Custody Record

Client Information Client Contact: Carrie Weitz / Megan Rosebrough Company: Intel Corporation Address: 4100 Sara Road Mail Stop RR5-465 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: Carrie.a.weitz@intel.com Project Name: Monthly Gallium/Indium Site:		Lab PM: Bindel, Dilela R. E-Mail: dilela.bindel@testamericainc.com Carrier Tracking No(s):	
Sampler: K. UEBAN Phone: 505-941-7917		COC No: Page: _____ of _____ Job #: _____	
Due Date Requested: TAT Requested (days): 10 Business Days PO #: _____ WO #: _____ Project #: 28003759 SSOW#: _____		Analysis Requested Total Number of Containers: _____	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Special Instructions/Note: 6010B Gallium sub to McCampbell Analytical 6010C Indium sub to TA-Cedar Falls	
Sample Identification OCT-01 OCT-02		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 6010B - Gallium (McCampbell Analytical) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 6010C - Indium (TA Cedar Falls) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Date: 10/18/18 Sample Time: 0900 Sample Type (C=Comp, G=grab): C W Preservation Code: W Matrix (W=Water, S=Solid, O=Other): W		Barcode: 280-115419 Chain of Custody	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify) _____			
Empty Kit Relinquished by: _____ Date: _____			
Relinquished by: Ken Ueban Date/Time: 10/18/18 2pm Company: Intel		Received by: [Signature] Date/Time: 10/18/18 0910 Company: [Signature]	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 2.8°C IRFA CT0-7	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____			

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Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: TA Denver	
City/State: Arvada CO	Project: monthly Gallium/Indium
Receipt Information	
Date/Time Received: 10/13/18 910	Received By: LAB
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx sat <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # ____ of ____</i>
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE	
Thermometer ID: N	Correction Factor (°C): +0.0
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C): -0.1	Corrected Temp (°C): -0.1
• Sample Container Temperature	
Container type(s) used:	
Uncorrected Temp (°C):	Corrected Temp (°C):
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

Document: CF-LG-WI-002
Revision: 23
Date: 12/31/2017

TestAmerica-Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-117803-1

Client Project/Site: Monthly Gallium/Indium

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

12/21/2018 12:01:16 PM

Nicole Brown, Project Manager I

nicole.brown@testamericainc.com

Designee for

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?



Visit us at:

www.testamericainc.com

Gallium Indium Outfall 1-7-2019_Dec

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Job ID: 280-117803-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/Indium

Report Number: 280-117803-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/6/2018 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample DEC-IND (280-117803-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/17/2018 and analyzed on 12/20/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Client Sample ID: DEC-GAL

Lab Sample ID: 280-117803-1

No Detections.

Client Sample ID: DEC-IND

Lab Sample ID: 280-117803-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indium	0.049	J	0.50	0.026	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-117803-1	DEC-GAL	Water	12/05/18 09:00	12/06/18 08:45
280-117803-2	DEC-IND	Water	12/05/18 09:00	12/06/18 08:45

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Method: 6010C - Metals (ICP)

Client Sample ID: DEC-IND
Date Collected: 12/05/18 09:00
Date Received: 12/06/18 08:45

Lab Sample ID: 280-117803-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.049	J	0.50	0.026	mg/L		12/17/18 08:40	12/20/18 15:04	1

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QC Sample Results

Client: Intel Corporation
 Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-225564/1-A
Matrix: Water
Analysis Batch: 226058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 225564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		12/17/18 08:40	12/20/18 15:01	1

Lab Sample ID: LCS 310-225564/2-A
Matrix: Water
Analysis Batch: 226058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 225564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	1.62		mg/L		81	80 - 120

Lab Sample ID: 280-117803-2 MS
Matrix: Water
Analysis Batch: 226058

Client Sample ID: DEC-IND
Prep Type: Total/NA
Prep Batch: 225564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	0.049	J	2.00	2.12		mg/L		103	75 - 125

Lab Sample ID: 280-117803-2 MSD
Matrix: Water
Analysis Batch: 226058

Client Sample ID: DEC-IND
Prep Type: Total/NA
Prep Batch: 225564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	0.049	J	2.00	2.09		mg/L		102	75 - 125	1	20

QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Metals

Prep Batch: 225564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117803-2	DEC-IND	Total/NA	Water	3010A	
MB 310-225564/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-225564/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-117803-2 MS	DEC-IND	Total/NA	Water	3010A	
280-117803-2 MSD	DEC-IND	Total/NA	Water	3010A	

Analysis Batch: 226058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117803-2	DEC-IND	Total/NA	Water	6010C	225564
MB 310-225564/1-A	Method Blank	Total/NA	Water	6010C	225564
LCS 310-225564/2-A	Lab Control Sample	Total/NA	Water	6010C	225564
280-117803-2 MS	DEC-IND	Total/NA	Water	6010C	225564
280-117803-2 MSD	DEC-IND	Total/NA	Water	6010C	225564

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Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-117803-1

Client Sample ID: DEC-IND

Date Collected: 12/05/18 09:00

Date Received: 12/06/18 08:45

Lab Sample ID: 280-117803-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	225564	12/17/18 08:40	JNR	TAL CF
Total/NA	Analysis	6010C		1			226058	12/20/18 15:04	CTB	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1812410

Report Created for: TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel
Project P.O.:
Project: 28003759; Monthly Gallium/Indium

Project Received: 12/10/2018

Analytical Report reviewed & approved for release on 12/14/2018 by:

Jennifer Lagerbom
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Monthly Gallium/Indium
WorkOrder: 1812410

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 12/10/18 9:33
Date Prepared: 12/10/18
Project: 28003759; Monthly Gallium/Indium

WorkOrder: 1812410
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
DEC-GAL (280-117803-1)	1812410-001A	Water	12/05/2018 09:00	ICP-OES 51	169695

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	1.8	20	1	12/14/2018 13:15

Analyst(s): ND





Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1812410
Date Prepared:	12/10/18	BatchID:	169695
Date Analyzed:	12/14/18	Extraction Method:	SW3050B
Instrument:	ICP-OES	Analytical Method:	SW6010B
Matrix:	Water	Unit:	µg/L
Project:	28003759; Monthly Gallium/Indium	Sample ID:	MB/LCS/LCSD-169695 1812410-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	1.8	20	-	-	-

Surrogate Recovery

Terbium	530			500	106	70-130
---------	-----	--	--	-----	-----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	980	1000	1000	98	100	85-115	1.88	20

Surrogate Recovery

Terbium	520	530	500	103	105	70-130	1.91	20
---------	-----	-----	-----	-----	-----	--------	------	----

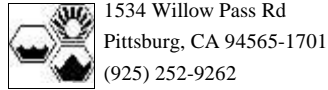
Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1	1100	1100	1000	ND	105	106	70-130	0.458	20

Surrogate Recovery

Terbium	1	510	510	500		101	103	70-130	1.32	20
---------	---	-----	-----	-----	--	-----	-----	--------	------	----

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<100	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1812410

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
 TestAmerica Denver
 4955 Yarrow Street
 Arvada, CO 80002
 303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
 cc/3rd Party:
 PO:
 Project: 28003759; Monthly Gallium/Indium

Bill to:

Accounts Payable
 TestAmerica
 4101 Shuffel Street NW
 North Canton, OH 44720
 AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 12/10/2018

Date Logged: 12/10/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1812410-001	DEC-GAL (280-117803-1)	Water	12/5/2018 09:00	<input type="checkbox"/>	A													

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Tina Perez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Monthly Gallium/Indium

Work Order: 1812410

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 12/10/2018

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1812410-001A	DEC-GAL (280-117803-1)	Water	SW6010B (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	12/5/2018 9:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: TestAmerica Denver
Project: 28003759; Monthly Gallium/Indium
WorkOrder No: 1812410 Matrix: Water
Carrier: FedEx

Date and Time Received: 12/10/2018 09:33
Date Logged: 12/10/2018
Received by: Tina Perez
Logged by: Tina Perez

Chain of Custody (COC) Information

Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Sample IDs noted by Client on COC? Yes [checked] No []
Date and Time of collection noted by Client on COC? Yes [checked] No []
Sampler's name noted on COC? Yes [] No [checked]
COC agrees with Quote? Yes [] No [] NA [checked]

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes [checked] No [] NA []
Shipping container/cooler in good condition? Yes [checked] No []
Samples in proper containers/bottles? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes [checked] No [] NA []
Samples Received on Ice? Yes [checked] No []
(Ice Type: WET ICE)

Sample/Temp Blank temperature Temp: 2.3°C NA []
Water - VOA vials have zero headspace / no bubbles? Yes [] No [] NA [checked]
Sample labels checked for correct preservation? Yes [checked] No []
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)? Yes [checked] No [] NA []

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes [] No [] NA [checked]
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes [] No [] NA [checked]

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-117803-1

Login Number: 117803

List Number: 1

Creator: Quint, Jessica A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-117803-1

Login Number: 117803

List Number: 2

Creator: Homolar, Dana J

List Source: TestAmerica Cedar Falls

List Creation: 12/10/18 09:20 AM

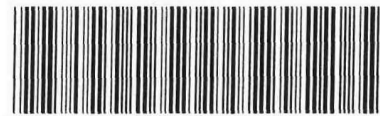
Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Chain of Custody Record

Client Information Client Contact: Carrie Weitz / Megan Rosebrough Company: Intel Corporation Address: 4100 Sara Road Mail Stop RR5-465 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: carrie.a.weitz@intel.com Project Name: Monthly Gallium/Indium Site:		Lab PM: Bindei, DLea R. E-Mail: glilea.bindei@testamericainc.com Carrier Tracking No(s): Page: _____ of _____ Job #: _____	
Analysis Requested Due Date Requested: TAT Requested (days): 10 Business Days PO #: WO #: Project #: 28003759 SSOW#:		Total Number of Containers: _____ 6010C - Indium (TA Cedar Falls) _____ 6010B - Gallium (McCampbell Analytical) _____ 6010C - Indium (TA Cedar Falls) _____ Perform MS/MSD (Yes or No) _____ Field Filtered Sample (Yes or No) _____	
Sample Identification DEC-GAL DEC-IND		Sample Date: 12/5/18 0900 C W 12/5/18 0900 C W Sample Time: _____ Sample Type (C=comp, G=grab): _____ Matrix (H=water, S=solid, O=metal, B=BTX, A=Air): _____ Preservation Code: _____	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by: Relinquished by: Ken Urban Relinquished by: _____ Relinquished by: _____		Method of Shipment: _____ Date: _____ Received by: _____ Received by: _____ Received by: _____ Date/Time: 12-5-18-1300 Date/Time: _____ Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____		Company: _____ Company: _____ Company: _____ Copy Temperature(s) °C and Other Remarks: 0.2 + 1.0 R # 3 transfer by JD	





Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: TA Denver	
City/State: Arvada CO	Project: Monthly Gallium/Indium
Receipt Information	
Date/Time Received: 12-8-18 925	Received By: KP
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx Sat <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # ____ of ____</i>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE	
Thermometer ID: N	Correction Factor (°C): 0.0
• Temp Blank Temperature – if no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C):	Corrected Temp (°C):
• Sample Container Temperature	
Container type(s) used:	
Uncorrected Temp (°C):	Corrected Temp (°C):
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

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ATTACHMENT D

Semi-Annual Monitoring Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-116804-1

Client Project/Site: Semi Annual Waste Water

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

11/23/2018 1:49:53 PM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Job ID: 280-116804-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Semi Annual Waste Water

Report Number: 280-116804-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/9/2018 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample H2-110718 (280-116804-4) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 11/14/2018 and analyzed on 11/16/2018.

Sample H2-110718 (280-116804-4)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NONHALOGENATED ORGANIC USING GC/FID (DIRECT AQUEOUS INJECTION)

Sample H2-110718 (280-116804-4) was analyzed for Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) in accordance with SW846 8015C. The samples were analyzed on 11/20/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples H2-110418 (280-116804-1), H2-110518 (280-116804-2), H2-110618 (280-116804-3) and H2-110718 (280-116804-4) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/14/2018 and analyzed on 11/16/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Samples H2-110418 (280-116804-1), H2-110518 (280-116804-2), H2-110618 (280-116804-3) and H2-110718 (280-116804-4) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 11/16/2018 and analyzed on 11/21/2018.

The following samples were diluted due to the abundance of non-target analytes: H2-110418 (280-116804-1), H2-110518 (280-116804-2), H2-110618 (280-116804-3), H2-110718 (280-116804-4), (280-116804-B-1-B MS), (280-116804-B-1-C MSD) and

Case Narrative

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Job ID: 280-116804-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

(280-116804-B-1-A SD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Client Sample ID: H2-110418

Lab Sample ID: 280-116804-1

No Detections.

Client Sample ID: H2-110518

Lab Sample ID: 280-116804-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indium	0.037	J	0.50	0.026	mg/L	1		6010C	Total/NA

Client Sample ID: H2-110618

Lab Sample ID: 280-116804-3

No Detections.

Client Sample ID: H2-110718

Lab Sample ID: 280-116804-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methyl-2-pyrrolidinone	1800		480	82	ug/L	50		8270C	Total/NA
Ethylene glycol	23		5.0	1.2	mg/L	1		8015C	Total/NA
Indium	0.043	J	0.50	0.026	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8015C	Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL CF
6020A	Metals (ICP/MS)	SW846	TAL SL
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL SL
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-116804-1	H2-110418	Water	11/04/18 09:00	11/09/18 08:50
280-116804-2	H2-110518	Water	11/05/18 09:00	11/09/18 08:50
280-116804-3	H2-110618	Water	11/06/18 09:00	11/09/18 08:50
280-116804-4	H2-110718	Water	11/07/18 09:00	11/09/18 08:50

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Client Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: H2-110718
Date Collected: 11/07/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrolidinone	1800		480	82	ug/L		11/14/18 11:31	11/16/18 13:06	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	107		38 - 120				11/14/18 11:31	11/16/18 13:06	50
2-Fluorophenol (Surr)	50		10 - 120				11/14/18 11:31	11/16/18 13:06	50
2,4,6-Tribromophenol (Surr)	109		28 - 120				11/14/18 11:31	11/16/18 13:06	50
Nitrobenzene-d5 (Surr)	89		32 - 120				11/14/18 11:31	11/16/18 13:06	50
Phenol-d5 (Surr)	32		10 - 120				11/14/18 11:31	11/16/18 13:06	50
Terphenyl-d14 (Surr)	37		23 - 127				11/14/18 11:31	11/16/18 13:06	50

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Client Sample ID: H2-110718
Date Collected: 11/07/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	23		5.0	1.2	mg/L			11/20/18 01:32	1

Method: 6010C - Metals (ICP)

Client Sample ID: H2-110418
Date Collected: 11/04/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		11/14/18 07:35	11/16/18 13:38	1

Client Sample ID: H2-110518
Date Collected: 11/05/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.037	J	0.50	0.026	mg/L		11/14/18 07:35	11/16/18 13:40	1

Client Sample ID: H2-110618
Date Collected: 11/06/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		11/14/18 07:35	11/16/18 13:46	1

Client Sample ID: H2-110718
Date Collected: 11/07/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.043	J	0.50	0.026	mg/L		11/14/18 07:35	11/16/18 13:47	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: H2-110418
Date Collected: 11/04/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L		11/16/18 13:01	11/21/18 07:39	10

TestAmerica Denver

Client Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Client Sample ID: H2-110518
Date Collected: 11/05/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L		11/16/18 13:01	11/21/18 08:26	10

Client Sample ID: H2-110618
Date Collected: 11/06/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L		11/16/18 13:01	11/21/18 08:33	10

Client Sample ID: H2-110718
Date Collected: 11/07/18 09:00
Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L		11/16/18 13:01	11/21/18 08:40	10

QC Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-355403/5-A
Matrix: Water
Analysis Batch: 355751

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrolidinone	ND		10	1.7	ug/L		11/14/18 11:31	11/16/18 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		38 - 120	11/14/18 11:31	11/16/18 10:48	1
2-Fluorophenol (Surr)	73		10 - 120	11/14/18 11:31	11/16/18 10:48	1
2,4,6-Tribromophenol (Surr)	87		28 - 120	11/14/18 11:31	11/16/18 10:48	1
Nitrobenzene-d5 (Surr)	83		32 - 120	11/14/18 11:31	11/16/18 10:48	1
Phenol-d5 (Surr)	53		10 - 120	11/14/18 11:31	11/16/18 10:48	1
Terphenyl-d14 (Surr)	103		23 - 127	11/14/18 11:31	11/16/18 10:48	1

Lab Sample ID: LCS 240-355403/6-A
Matrix: Water
Analysis Batch: 355751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Chloronaphthalene	20.0	18.2		ug/L		91	53 - 120
2-Chlorophenol	20.0	18.1		ug/L		91	53 - 120
2,4-Dichlorophenol	20.0	19.2		ug/L		96	55 - 120
2,4-Dimethylphenol	20.0	19.5		ug/L		97	52 - 120
2,4-Dinitrophenol	40.0	35.3		ug/L		88	12 - 120
2,4-Dinitrotoluene	20.0	20.8		ug/L		104	60 - 120
2-Nitrophenol	20.0	20.1		ug/L		101	54 - 120
1,2,4-Trichlorobenzene	20.0	16.7		ug/L		83	49 - 120
2,4,6-Trichlorophenol	20.0	19.4		ug/L		97	54 - 120
2,6-Dinitrotoluene	20.0	20.0		ug/L		100	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	91		38 - 120
2-Fluorophenol (Surr)	84		10 - 120
2,4,6-Tribromophenol (Surr)	104		28 - 120
Nitrobenzene-d5 (Surr)	98		32 - 120
Phenol-d5 (Surr)	64		10 - 120
Terphenyl-d14 (Surr)	99		23 - 127

Lab Sample ID: LCS 240-355403/7-A
Matrix: Water
Analysis Batch: 355751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355403

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	86		38 - 120
2-Fluorophenol (Surr)	76		10 - 120
2,4,6-Tribromophenol (Surr)	89		28 - 120
Nitrobenzene-d5 (Surr)	83		32 - 120
Phenol-d5 (Surr)	55		10 - 120
Terphenyl-d14 (Surr)	101		23 - 127

TestAmerica Denver

QC Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 680-548239/14
Matrix: Water
Analysis Batch: 548239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		5.0	1.2	mg/L			11/19/18 21:54	1

Lab Sample ID: LCS 680-548239/11
Matrix: Water
Analysis Batch: 548239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene glycol	40.0	35.0		mg/L		87	61 - 148

Lab Sample ID: LCSD 680-548239/12
Matrix: Water
Analysis Batch: 548239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	40.0	35.6		mg/L		89	61 - 148	2	50

Lab Sample ID: 680-160746-U-4 MSD
Matrix: Water
Analysis Batch: 548239

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	ND		40.0	35.0		mg/L		87	61 - 148	23	50

Lab Sample ID: 680-160746-V-4 MS
Matrix: Water
Analysis Batch: 548239

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene glycol	ND		40.0	27.9		mg/L		70	61 - 148

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-222438/1-A
Matrix: Water
Analysis Batch: 222847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 222438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		11/14/18 07:35	11/16/18 13:27	1

Lab Sample ID: LCS 310-222438/2-A
Matrix: Water
Analysis Batch: 222847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 222438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indium	2.00	1.94		mg/L		97	80 - 120

TestAmerica Denver

QC Sample Results

Client: Intel Corporation
 Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-401285/1-A
Matrix: Water
Analysis Batch: 402006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		11/16/18 13:01	11/21/18 07:26	2

Lab Sample ID: LCS 160-401285/2-A
Matrix: Water
Analysis Batch: 402006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Platinum	10.0	10.0		ug/L		100	80 - 120

Lab Sample ID: 280-116804-1 MS
Matrix: Water
Analysis Batch: 402006

Client Sample ID: H2-110418
Prep Type: Total/NA
Prep Batch: 401285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Platinum	ND		10.0	11.2		ug/L		112	75 - 125

Lab Sample ID: 280-116804-1 MSD
Matrix: Water
Analysis Batch: 402006

Client Sample ID: H2-110418
Prep Type: Total/NA
Prep Batch: 401285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Platinum	ND		10.0	11.3		ug/L		113	75 - 125	1	20

QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

GC/MS Semi VOA

Prep Batch: 355403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116804-4	H2-110718	Total/NA	Water	3510C	
MB 240-355403/5-A	Method Blank	Total/NA	Water	3510C	
LCS 240-355403/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 240-355403/7-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 355751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116804-4	H2-110718	Total/NA	Water	8270C	355403
MB 240-355403/5-A	Method Blank	Total/NA	Water	8270C	355403
LCS 240-355403/6-A	Lab Control Sample	Total/NA	Water	8270C	355403
LCS 240-355403/7-A	Lab Control Sample	Total/NA	Water	8270C	355403

GC VOA

Analysis Batch: 548239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116804-4	H2-110718	Total/NA	Water	8015C	
MB 680-548239/14	Method Blank	Total/NA	Water	8015C	
LCS 680-548239/11	Lab Control Sample	Total/NA	Water	8015C	
LCS 680-548239/12	Lab Control Sample Dup	Total/NA	Water	8015C	
680-160746-U-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	
680-160746-V-4 MS	Matrix Spike	Total/NA	Water	8015C	

Metals

Prep Batch: 222438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116804-1	H2-110418	Total/NA	Water	3010A	
280-116804-2	H2-110518	Total/NA	Water	3010A	
280-116804-3	H2-110618	Total/NA	Water	3010A	
280-116804-4	H2-110718	Total/NA	Water	3010A	
MB 310-222438/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-222438/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 222847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116804-1	H2-110418	Total/NA	Water	6010C	222438
280-116804-2	H2-110518	Total/NA	Water	6010C	222438
280-116804-3	H2-110618	Total/NA	Water	6010C	222438
280-116804-4	H2-110718	Total/NA	Water	6010C	222438
MB 310-222438/1-A	Method Blank	Total/NA	Water	6010C	222438
LCS 310-222438/2-A	Lab Control Sample	Total/NA	Water	6010C	222438

Prep Batch: 401285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116804-1	H2-110418	Total/NA	Water	3010A	
280-116804-2	H2-110518	Total/NA	Water	3010A	
280-116804-3	H2-110618	Total/NA	Water	3010A	
280-116804-4	H2-110718	Total/NA	Water	3010A	
MB 160-401285/1-A	Method Blank	Total/NA	Water	3010A	

TestAmerica Denver

QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Metals (Continued)

Prep Batch: 401285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-401285/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-116804-1 MS	H2-110418	Total/NA	Water	3010A	
280-116804-1 MSD	H2-110418	Total/NA	Water	3010A	

Analysis Batch: 402006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116804-1	H2-110418	Total/NA	Water	6020A	401285
280-116804-2	H2-110518	Total/NA	Water	6020A	401285
280-116804-3	H2-110618	Total/NA	Water	6020A	401285
280-116804-4	H2-110718	Total/NA	Water	6020A	401285
MB 160-401285/1-A	Method Blank	Total/NA	Water	6020A	401285
LCS 160-401285/2-A	Lab Control Sample	Total/NA	Water	6020A	401285
280-116804-1 MS	H2-110418	Total/NA	Water	6020A	401285
280-116804-1 MSD	H2-110418	Total/NA	Water	6020A	401285

Lab Chronicle

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-116804-1

Client Sample ID: H2-110418

Date Collected: 11/04/18 09:00

Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	222438	11/14/18 07:35	JNR	TAL CF
Total/NA	Analysis	6010C		1			222847	11/16/18 13:38	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	401285	11/16/18 13:01	LAM	TAL SL
Total/NA	Analysis	6020A		10			402006	11/21/18 07:39	CB	TAL SL

Client Sample ID: H2-110518

Date Collected: 11/05/18 09:00

Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	222438	11/14/18 07:35	JNR	TAL CF
Total/NA	Analysis	6010C		1			222847	11/16/18 13:40	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	401285	11/16/18 13:01	LAM	TAL SL
Total/NA	Analysis	6020A		10			402006	11/21/18 08:26	CB	TAL SL

Client Sample ID: H2-110618

Date Collected: 11/06/18 09:00

Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	222438	11/14/18 07:35	JNR	TAL CF
Total/NA	Analysis	6010C		1			222847	11/16/18 13:46	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	401285	11/16/18 13:01	LAM	TAL SL
Total/NA	Analysis	6020A		10			402006	11/21/18 08:33	CB	TAL SL

Client Sample ID: H2-110718

Date Collected: 11/07/18 09:00

Date Received: 11/09/18 08:50

Lab Sample ID: 280-116804-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1040 mL	2 mL	355403	11/14/18 11:31	ACS	TAL CAN
Total/NA	Analysis	8270C		50			355751	11/16/18 13:06	MRU	TAL CAN
Total/NA	Analysis	8015C		1			548239	11/20/18 01:32	LBH	TAL SAV
Total/NA	Prep	3010A			50 mL	50 mL	222438	11/14/18 07:35	JNR	TAL CF
Total/NA	Analysis	6010C		1			222847	11/16/18 13:47	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	401285	11/16/18 13:01	LAM	TAL SL
Total/NA	Analysis	6020A		10			402006	11/21/18 08:40	CB	TAL SL

Laboratory References:

- = McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565
- TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
- TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
- TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
- TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Denver



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1811498

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.:

Project: 28003759; Semi Annual Waste Water

Project Received: 11/13/2018

Analytical Report reviewed & approved for release on 11/20/2018 by:

Yen Cao

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 1811498

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 11/13/18 10:20
Date Prepared: 11/13/18
Project: 28003759; Semi Annual Waste Water

WorkOrder: 1811498
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-110418 (280-116804-1)	1811498-001A	Water	11/04/2018 09:00	ICP-OES 9	168296

Analytes	Result	RL	DF	Date Analyzed
Gallium	ND	20	1	11/15/2018 16:24

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-110518 (280-116804-2)	1811498-002A	Water	11/05/2018 09:00	ICP-OES 28	168296

Analytes	Result	RL	DF	Date Analyzed
Gallium	ND	20	1	11/15/2018 17:16

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-110618 (280-116804-3)	1811498-003A	Water	11/06/2018 09:00	ICP-OES 29	168296

Analytes	Result	RL	DF	Date Analyzed
Gallium	ND	20	1	11/15/2018 17:19

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-110718 (280-116804-4)	1811498-004A	Water	11/07/2018 09:00	ICP-OES 32	168296

Analytes	Result	RL	DF	Date Analyzed
Gallium	ND	20	1	11/15/2018 17:27

Analyst(s): ND



Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1811498
Date Prepared:	11/12/18 - 11/13/18	BatchID:	168296
Date Analyzed:	11/14/18 - 11/15/18	Extraction Method:	SW3050B
Instrument:	ICP-OES	Analytical Method:	SW6010B
Matrix:	Water	Unit:	µg/L
Project:	28003759; Semi Annual Waste Water	Sample ID:	MB/LCS/LCSD-168296 1811498-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	20	-	-	-

Surrogate Recovery

Terbium	510		500	103	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	990	990	1000	99	99	85-115	0	20

Surrogate Recovery

Terbium	510	510	500	101	102	70-130	0.329	20
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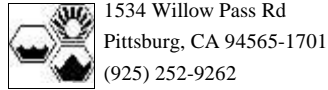
Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1	1100	1100	1000	ND	109	107	70-130	0.990	20

Surrogate Recovery

Terbium	1	500	500	500		100	99	70-130	0.432	20
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Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<100	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1811498

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party:
PO:
Project: 28003759; Semi Annual Waste Water

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 11/13/2018

Date Logged: 11/13/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1811498-001	H2-110418 (280-116804-1)	Water	11/4/2018 09:00	<input type="checkbox"/>	A												
1811498-002	H2-110518 (280-116804-2)	Water	11/5/2018 09:00	<input type="checkbox"/>	A												
1811498-003	H2-110618 (280-116804-3)	Water	11/6/2018 09:00	<input type="checkbox"/>	A												
1811498-004	H2-110718 (280-116804-4)	Water	11/7/2018 09:00	<input type="checkbox"/>	A												

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius

Prepared by: Tina Perez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Semi Annual Waste Water

Work Order: 1811498

Client Contact: DiLea R Bindel

QC Level:

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 11/13/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1811498-001A	H2-110418 (280-116804-1)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	11/4/2018 9:00	5 days	Trace	<input type="checkbox"/>	
1811498-002A	H2-110518 (280-116804-2)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	11/5/2018 9:00	5 days	None	<input type="checkbox"/>	
1811498-003A	H2-110618 (280-116804-3)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	11/6/2018 9:00	5 days	None	<input type="checkbox"/>	
1811498-004A	H2-110718 (280-116804-4)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	11/7/2018 9:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Semi Annual Waste Water**

Date and Time Received: **11/13/2018 10:20**

Date Logged: **11/13/2018**

Received by: **Jillian Sarkany**

Logged by: **Tina Perez**

WorkOrder No: **1811498** Matrix: Water
Carrier: FedEx

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No
- COC agrees with Quote? Yes No NA

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

- Sample/Temp Blank temperature Temp: 1.8°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No NA
- Sample labels checked for correct preservation? Yes No
- pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA

UCMR Samples:

- pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes No NA
- Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes No NA

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-116804-1

Login Number: 116804

List Number: 1

Creator: Staack, KiAundra A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-116804-1

Login Number: 116804

List Number: 2

Creator: Patrick, Kathryn E

List Source: TestAmerica Cedar Falls

List Creation: 11/13/18 01:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	False	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-116804-1

Login Number: 116804

List Number: 3

Creator: Weston, Pamela

List Source: TestAmerica Savannah

List Creation: 11/13/18 02:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-116804-1

Login Number: 116804

List Number: 4

Creator: Dupart, Lacey S

List Source: TestAmerica St. Louis

List Creation: 11/13/18 02:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client Information Client Contact: Carrie Weitz / Megan Rosebrough Company: Intel Corporation Address: 4100 Saira Road Mail Stop RRS-491 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: carrie.a.weitz@intel.com Project Name: Semi Annual Waste Water Site:		Lab PM: Bindel, Dilela E-Mail: dilela.bindel@testamericainc.com Carrier Tracking No(s): 280-23927-10503.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SOW#:		Analysis Requested 8015C DAI - Ethylene Glycol (Sub -SAY) N 8270C - 1-Methyl-2-pyrrolidone (NMP) (Sub - Canton) N 6010B - Gallium (Sub - McCambell Analytical, Inc) D 6010C - Indium (Sub - Cedar Falls) D 6020A - Platinum (Sub - St. Louis) D Total Number of containers:	
Sample Identification 142-110418 142-110578 142-110618 142-110718		Field Filtered Sample (Yes or No) X Perform MS/MSD (Yes or No) X 8015C DAI - Ethylene Glycol (Sub -SAY) N 8270C - 1-Methyl-2-pyrrolidone (NMP) (Sub - Canton) N 6010B - Gallium (Sub - McCambell Analytical, Inc) D 6010C - Indium (Sub - Cedar Falls) D 6020A - Platinum (Sub - St. Louis) D Special Instructions/Note: 280-116804 Chain of Custody	
Sample Date 1/14/18 1/15/18 1/16/18 1/17/18		Sample Time 0900 0900 0900 0900	
Sample Type (C=Comp, G=grab) C C C C		Matrix (W=water, S=solid, O=oil, BT=BIOTEST, A=AIR) W W W W	
Preservation Code: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 L - EDA Z - other (specify)	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: Ken Urban Date/Time: 1/17-18/2018		Relinquished by: Intel Date/Time: 1/19/18 0850	
Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 257863 + 257864	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Method of Shipment:			
Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:	
Cooler Temperature(s) °C and Other Remarks: 0.5, 40.7 stored by KWS 1/19/18			



TestAmerica Denver
 4955 Yarrow Street
 Arvada, CO 80002
 Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Client Contact: **TestAmerica Laboratories, Inc.**
 Shipping/Receiving
 Address: **13715 Rider Trail North,**
 City: **MO, 63045**
 State, Zip:
 Phone: **314-298-8566(Tel) 314-298-8757(Fax)**
 Email:
 Project Name: **Semi Annual Waste Water**
 Site: **28003759**
 SSSOW#:

Sampler:
 Phone:
 Lab P#: **Dilgar R**
 E-Mail: **dilea.bindel@testamericainc.com**

Carrier Tracking No(s):
 State of Origin: **New Mexico**
 Page: **1 of 1**

Accreditations Required (See note):
 Job #: **280-116804-1**

COC No: **280-462115-1**
 Page: **1 of 1**
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDTA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - PH 4.5
 Z - other (Specify)

Analysis Requested

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overhead, BT-Tissue, A-AI)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
H2-110418 (280-116804-1)	11/4/18	09:00	Water	Water	X	6020A/3010A_2% (MOD) 6020A Platinum	1	
H2-110518 (280-116804-2)	11/5/18	09:00	Water	Water	X		1	
H2-110618 (280-116804-3)	11/6/18	09:00	Water	Water	X		1	
H2-110718 (280-116804-4)	11/7/18	09:00	Water	Water	X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/analyte/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by:
 Relinquished by: *[Signature]* Date/Time: **11/12/18 15:30** Company: **TAACN**

Relinquished by: *[Signature]* Date/Time: **11/13/18 09:30** Company: **TA STL**

Custody Seats Intact: Yes No
 Custody Seal No.:

Special Instructions/OC Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Method of Shipment:
 Received by: *[Signature]* Date/Time: **11/13/18 09:30** Company: **TA STL**
 Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 4101 Shuffel Street NW, City: North Canton State, Zip: OH, 44720 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email:		Sampler: Bindel, DiLea R. Lab PM: Bindel, DiLea R. Phone: dilea.bindel@testamericainc.com E-Mail: dilea.bindel@testamericainc.com State of Origin: New Mexico Carrier Tracking No(s): COC No: 280-462118.1 Page: Page 1 of 1 Job #: 280-116804-1	
Due Date Requested: 11/23/2018 TAT Requested (days): PO #: WO #: Project #: 28003759 SSOV#:		Analysis Requested 8270C/3510C_Acid 1-Methyl-2-Pyrrolidone (NMP) Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Preservation Codes:	
Sample Identification - Client ID (Lab ID) H2-110718 (280-116804-4)		Matrix (W=water, S=solid, O=oil, B=biological, A=air) Sample Type (C=Comp, G=grab) Sample Time: 09:00 Mountain Sample Date: 11/17/18 Preservation Code: Water Special Instructions/Note: C-218	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.		Total Number of containers: 2	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by:			
Relinquished by: [Signature] Date: 11/17/18 1455 Company:		Received by: [Signature] Date/Time: 11-15-18 1035 Company: TPL Company	
Relinquished by: [Signature] Date/Time:		Received by: [Signature] Date/Time:	
Relinquished by: [Signature] Date/Time:		Received by: [Signature] Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : _____

Client TA DENVER Site Name _____

Cooler unpacked by:

Cooler Received on 11-13-18 Opened on 11-14-18

BSB

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client-Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-8 (CF +0.9 °C) Observed Cooler Temp. 0.2 °C Corrected Cooler Temp. 1.1 °C
 IR GUN #36 (CF +0.6 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? Yes No

9. Were correct bottle(s) used for the test(s) indicated? Yes No

10. Sufficient quantity received to perform indicated analyses? Yes No

11. Are these work share samples? Yes No

If yes, Questions 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC850248

13. Were VOAs on the COC? Yes No

14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____



280-116804 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: <u>TA Denver</u>	
City/State: <u>Arvada CO</u>	Project:
Receipt Information	
Date/Time Received: <u>11/3/18 10:20</u>	Received By: <u>APB</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # _____ of _____</i>
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> NONE
Thermometer ID: <u>M</u>	Correction Factor (°C): <u>0.0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C):	Corrected Temp (°C):
• Sample Container Temperature	
Container type(s) used:	
Uncorrected Temp (°C):	Corrected Temp (°C):
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

TestAmerica Denver
 4955 Yarrow Street
 Arvada, CO 80002
 Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Company: TestAmerica Laboratories, Inc
 Address: 704 Enterprise Drive
 City: Cedar Falls
 State, Zip: IA, 50613
 Phone: 319-277-2401(Tel) 319-277-2425(Fax)
 Email:

Lab PM: Bindel, Dillea R
 E-Mail: dillea.bindel@testamericainc.com
 Carrier Tracking No(s): 280-462116.1
 State of Origin: New Mexico
 Page: Page 1 of 1
 Job #: 280-116804-1

Accreditations Required (See note):

Due Date Requested: 11/21/2018
 TAT Requested (days):

PO #:
 WO #:
 Project #: 28003759
 SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3010A (MOD) 6010C Indium	Total Number of Containers	Special Instructions/Note:
H2-110418 (280-116804-1)	11/4/18	09:00 Mountain		Water	X		X	1	
H2-110518 (280-116804-2)	11/5/18	09:00 Mountain		Water	X		X	1	
H2-110618 (280-116804-3)	11/6/18	09:00 Mountain		Water	X		X	1	
H2-110718 (280-116804-4)	11/7/18	09:00 Mountain		Water	X		X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Method of Shipment: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Relinquished by:	Date/Time: 11/20/18 0500	Company: TAP	Date/Time: 11-13-18 1020	Company: TAP
Relinquished by:		Company:		Company:
Relinquished by:		Company:		Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:		

Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Bindel, Dilela R Shipping/Receiving: dilela.bindel@testamericainc.com Company: TestAmerica Laboratories, Inc. Address: 5102 LaRoche Avenue, Savannah, GA, 31404 Phone: 912-354-7858(Tel) 912-352-0165(Fax) Email: Project Name: Semi Annual Waste Water Site:			Lab PM: Bindel, Dilela R E-Mail: dilela.bindel@testamericainc.com Carrier Tracking Net(s): State of Origin: New Mexico Accreditations Required (See note):			COC No: 280-462117-1 Page: Page 1 of 1 Job #: 280-116804-1 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
Due Date Requested: 11/21/2018 TAT Requested (days): PO #: WO #: Project #: 28003759 SSOW#:			Analysis Requested 8015C_DAI (MOD) 8015C Ethylene Glycol Perform MS/MSD (Yes or No) X Field Filtered Sample (Yes or No) X Total Number of Containers 3 Special Instructions/Note:			Sample Identification - Client ID (Lab ID) H2-110718 (280-116804-4) Sample Date: 11/7/18 Sample Time: 09:00 Mountain Matrix (W=Water, S=Solid, O=Organic, BT=Trace, A=Air) Sample Type (C=Comp, G=grab) Preservation Code: Water		
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: Relinquished by: <i>Homeny</i> Relinquished by: Relinquished by: Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: Method of Shipment: Date/Time: 11-12-18 1530 Date/Time: 11/13/18 940 Date/Time: Date/Time: Date/Time: Cooler Temperature(s) °C and Other Remarks: 2-2 / Cu 1025			Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.		