January 27, 2021

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, 2020 through December 31, 2020

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	Code
Special Wastestream Pollutant Limitations - Cerium	CE
Cyanide Certification	CN
Average and Daily Effluent Flow Monitoring	FM6
Grease Traps, Sand Traps and Oil/Water Separators	GS
Hazardous Air Pollutants Certification	HAPS
Hazardous Substances and Pretreatment Wastes for Permit # 2021A	HZ3
2021A pH Monitoring	PH3
Reporting Certification	RC
Special Wastestream Pollutant Limitations for Permit 2021A	SWSP
Self-Monitoring	SM
Toxic Organic Management Plan Certification Statement	TC3
Source Reduction and Waste Minimization Statement	WM

Attachments:

A – Intel NM Grease Trap Pumping Manifests - H2 2020
B – Cerium Sampling Reports
C – Semi-Annual Monitoring SWSP Analytical Results
D – Self-Monitoring Analytical Results – NMP and Ethylene Glycol

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

Code	Endorsement
CE	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS - CERIUM
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
SWSP	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
TC3	TOMP CERTIFICATION STATEMENT
SM	SELF-MONITORING
WM	WASTE MIN. PERMIT 2021A

ENDORSEMENT CE

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

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

POLLUTANT	MAXIMUM FOR ANY 1-DAY	MONTHLY AVERAGE	MONITORING FREQUENCY
Cerium	12.0 mg/L	3.0 mg/L	CY'20 Monthly CY'21 Semi-annual*

MONITORING REQUIREMENT: The Permittee is required to sample the site discharge for the above pollutants weekly (once per month) at the permitted sample point. Sample to be taken using 24-hour composite sampler and to be coordinated with Pretreatment for SWRP influent/effluent sampling.
* Starting in January 2021, sampling will go down to semi-annually (4-day sampling event) to mirror the other special waste stream pollutants (In, Ga, Pt).

REPORTING REQUIREMENT: The Permittee is required to report monthly sample data in their Semi-Annual Report as part of the "Special Wastestream Pollutant Report".

In compliance with Endorsement CE, Hall Environmental Analysis Laboratory submits cerium sampling results to Intel NM and ABCWUA simultaneously when results are ready. If Hall fails to copy ABCWUA, Intel forwards the report to ABCWUA. Results were submitted as follows for H2 2020 reporting:

- **August 19th, 2020 (June sample results)**
- **Sept. 10th, 2020 (July sample results)**
- **Sept. 10th, 2020 (August sample results)**
- **Oct. 12th, 2020 (September sample results)**
- **Nov. 10th, 2020 (October sample results)**
- **Dec. 7th, 2020 (November sample results)**
- **Jan. 19th, 2021 (December sample results)**

The sample reports are included for reference in Attachment B. Requirements of Endorsement CE have been met for the samples included in this Semi-Annual Report. The June 2020 results for Cerium were not available before submitting the 2020 H1 Semi-Annual Report and have been included in this report.

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: 1/27/21

Signature: [signature] Title: NM Corporate Services Manager

Authorized Representative

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
2-Propenoic acid, 2-methyl-,3-cyanohexahydro-2-oxo-3,5-methano-2H-cyclopenta[b]furan-6-yl ester, polymer with 1-cyclohexyl-1-methylethyl 2-methyl-2-propenoate,cyclohexyl 2-methyl-2-propenoate and 3,5-dihydroxytricyclo[3.3.1.13,7]dec-1-yl 2 methyl-2-propenoate	929196-98-5
2-Propenoic acid, 2-methyl-, 3-cyanohexahydro-2-oxo-3,5-methano-2H-cyclopenta[b]furan-6-yl ester, polymer with 1-ethylcyclopentyl 2-methyl-2-propenoate	1193666-36-2
2-Propenoic acid, 2-methyl-3-cyanohexahydro-2-oxo-3,5-methano-2H-cyclopenta[b]furan-6-yl ester, polymer with 1-cyclohexyl-1-methylethyl 2-methyl-2-propenoate, cyclohexyl 2-methyl-2-propenoate and 3,5-dihydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate, di-Me 2,2'-(1,2-diazenediyl)bis[2-methylpropanoate]	

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:	1,981,627	gallons per day
Peak Daily Flow:	2,449,303	gallons per day
Peak Daily Flow occurred on:	11/21/2020	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 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
7/1/2020	1,304	256	1,040	264
7/2/2020	1,194	142	1,044	150
7/3/2020	1,301	158	1,134	166
7/4/2020	1,457	321	1,128	329
7/5/2020	1,380	300	1,072	308
7/6/2020	1,194	166	1,020	175
7/7/2020	1,173	142	1,022	150
7/8/2020	1,292	254	1,029	262
7/9/2020	1,249	208	1,033	216
7/10/2020	1,305	255	1,041	263
7/11/2020	1,268	217	1,042	225
7/12/2020	1,218	154	1,056	162
7/13/2020	1,360	314	1,037	322
7/14/2020	1,246	149	1,089	157
7/15/2020	1,319	264	1,047	272
7/16/2020	1,289	197	1,083	206
7/17/2020	1,378	290	1,080	298
7/18/2020	1,281	178	1,094	186
7/19/2020	1,192	149	1,035	157
7/20/2020	1,309	211	1,089	220
7/21/2020	1,388	321	1,059	329
7/22/2020	1,373	305	1,059	314
7/23/2020	1,234	142	1,084	150
7/24/2020	1,295	145	1,142	153
7/25/2020	1,230	141	1,081	149
7/26/2020	1,437	315	1,113	323
7/27/2020	1,389	306	1,075	314
7/28/2020	1,287	152	1,127	160
7/29/2020	1,257	151	1,097	160
7/30/2020	1,195	149	1,038	157
7/31/2020	1,607	491	1,107	499
	gpm	**gpd**		
Average	**1,303**	**1,876,673**		
Peak	**1,607**	**2,313,386**	**Peak Date**	**7/31/2020**

August 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
8/1/2020	1,187	142	1,037	150
8/2/2020	1,207	146	1,053	154
8/3/2020	1,283	151	1,123	159
8/4/2020	1,458	322	1,127	331
8/5/2020	1,422	313	1,101	322
8/6/2020	1,276	157	1,110	166
8/7/2020	1,218	144	1,065	153
8/8/2020	1,274	157	1,108	166
8/9/2020	1,461	322	1,131	330
8/10/2020	1,390	317	1,064	326
8/11/2020	1,283	157	1,117	166
8/12/2020	1,219	152	1,059	160
8/13/2020	1,354	220	1,125	229
8/14/2020	1,459	340	1,110	349
8/15/2020	1,298	248	1,042	256
8/16/2020	1,243	153	1,083	161
8/17/2020	1,229	160	1,061	168
8/18/2020	1,456	329	1,119	337
8/19/2020	1,409	324	1,076	332
8/20/2020	1,277	166	1,103	174
8/21/2020	1,262	162	1,091	171
8/22/2020	1,275	180	1,087	188
8/23/2020	1,357	317	1,032	326
8/24/2020	1,386	331	1,047	339
8/25/2020	1,204	159	1,037	167
8/26/2020	1,270	168	1,094	176
8/27/2020	1,385	315	1,062	323
8/28/2020	1,293	191	1,094	200
8/29/2020	1,423	329	1,085	338
8/30/2020	1,315	175	1,131	184
8/31/2020	1,231	167	1,055	176
	gpm	**gpd**		
Average	**1,316**	**1,895,354**		
Peak	**1,461**	**2,103,396**	**Peak Date**	**8/9/2020**

September 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
9/1/2020	1,516	336	1,171	345
9/2/2020	1,405	178	1,218	186
9/3/2020	1,430	341	1,080	349
9/4/2020	1,222	178	1,036	186
9/5/2020	1,304	256	1,040	264
9/6/2020	1,300	258	1,034	267
9/7/2020	1,309	229	1,072	237
9/8/2020	1,388	294	1,085	303
9/9/2020	1,389	182	1,198	191
9/10/2020	1,577	352	1,217	360
9/11/2020	1,384	211	1,165	219
9/12/2020	1,571	378	1,184	386
9/13/2020	1,334	208	1,117	216
9/14/2020	1,445	271	1,165	279
9/15/2020	1,379	318	1,052	327
9/16/2020	1,382	215	1,158	224
9/17/2020	1,487	424	1,054	432
9/18/2020	1,303	209	1,086	217
9/19/2020	1,470	371	1,091	379
9/20/2020	1,325	208	1,109	216
9/21/2020	1,297	196	1,093	204
9/22/2020	1,493	357	1,127	366
9/23/2020	1,217	180	1,029	188
9/24/2020	1,468	349	1,111	357
9/25/2020	1,195	173	1,014	181
9/26/2020	1,230	185	1,037	194
9/27/2020	1,417	370	1,039	378
9/28/2020	1,491	358	1,124	367
9/29/2020	1,380	203	1,169	211
9/30/2020	1,283	190	1,085	198
	gpm	**gpd**		
Average	**1,380**	**1,986,726**		
Peak	**1,577**	**2,271,571**	**Peak Date**	**9/10/2020**

October 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
10/1/2020	1,264	172	1,084	180
10/2/2020	1,417	310	1,098	318
10/3/2020	1,422	315	1,099	323
10/4/2020	1,222	133	1,080	142
10/5/2020	1,248	142	1,098	150
10/6/2020	1,228	142	1,078	150
10/7/2020	1,416	305	1,102	314
10/8/2020	1,402	308	1,086	316
10/9/2020	1,198	130	1,060	139
10/10/2020	1,204	132	1,063	141
10/11/2020	1,194	134	1,052	142
10/12/2020	1,410	308	1,094	316
10/13/2020	1,401	308	1,085	316
10/14/2020	1,204	151	1,045	159
10/15/2020	1,250	148	1,094	156
10/16/2020	1,245	147	1,090	155
10/17/2020	1,413	322	1,082	330
10/18/2020	1,345	291	1,045	300
10/19/2020	1,231	136	1,086	144
10/20/2020	1,289	149	1,132	158
10/21/2020	1,227	137	1,081	145
10/22/2020	1,402	306	1,088	315
10/23/2020	1,397	297	1,093	305
10/24/2020	1,207	135	1,063	143
10/25/2020	1,221	137	1,075	145
10/26/2020	1,330	145	1,177	153
10/27/2020	1,536	309	1,218	318
10/28/2020	1,513	300	1,204	309
10/29/2020	1,400	155	1,237	163
10/30/2020	1,495	161	1,325	170
10/31/2020	1,342	153	1,180	162
	gpm	**gpd**		
Average	**1,325**	**1,907,888**		
Peak	**1,536**	**2,211,572**	**Peak Date**	**10/27/2020**

November 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
11/1/2020	1,663	475	1,180	483
11/2/2020	1,342	144	1,190	152
11/3/2020	1,317	151	1,159	159
11/4/2020	1,293	135	1,149	144
11/5/2020	1,493	318	1,167	326
11/6/2020	1,521	270	1,242	279
11/7/2020	1,541	219	1,314	227
11/8/2020	1,356	146	1,203	154
11/9/2020	1,407	151	1,247	160
11/10/2020	1,565	311	1,246	319
11/11/2020	1,584	322	1,254	331
11/12/2020	1,480	160	1,312	169
11/13/2020	1,513	167	1,338	175
11/14/2020	1,498	316	1,173	324
11/15/2020	1,319	145	1,166	154
11/16/2020	1,516	317	1,191	325
11/17/2020	1,333	146	1,178	155
11/18/2020	1,327	153	1,166	161
11/19/2020	1,559	310	1,240	319
11/20/2020	1,499	162	1,328	171
11/21/2020	1,701	325	1,367	334
11/22/2020	1,357	136	1,213	144
11/23/2020	1,648	316	1,324	324
11/24/2020	1,414	143	1,263	151
11/25/2020	1,409	147	1,254	156
11/26/2020	1,538	308	1,222	316
11/27/2020	1,457	160	1,289	168
11/28/2020	1,684	330	1,346	338
11/29/2020	1,418	152	1,258	160
11/30/2020	1,427	156	1,262	165
	gpm	**gpd**		
Average	**1,473**	**2,120,625**		
Peak	**1,701**	**2,449,303**	**Peak Date**	**11/21/2020**

December 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
12/1/2020	1,577	321	1,248	329
12/2/2020	1,565	309	1,248	317
12/3/2020	1,447	153	1,286	161
12/4/2020	1,493	160	1,326	168
12/5/2020	1,673	300	1,365	308
12/6/2020	1,421	176	1,237	184
12/7/2020	1,525	310	1,207	318
12/8/2020	1,351	145	1,198	153
12/9/2020	1,341	145	1,188	153
12/10/2020	1,395	151	1,236	159
12/11/2020	1,697	473	1,216	481
12/12/2020	1,374	145	1,221	153
12/13/2020	1,365	144	1,212	153
12/14/2020	1,420	154	1,258	162
12/15/2020	1,552	311	1,233	319
12/16/2020	1,514	310	1,196	318
12/17/2020	1,385	155	1,222	163
12/18/2020	1,354	143	1,202	151
12/19/2020	1,386	154	1,224	162
12/20/2020	1,540	313	1,219	321
12/21/2020	1,481	306	1,167	314
12/22/2020	1,383	152	1,223	160
12/23/2020	1,410	152	1,250	160
12/24/2020	1,367	147	1,212	155
12/25/2020	1,596	326	1,262	334
12/26/2020	1,460	289	1,163	297
12/27/2020	1,360	146	1,205	154
12/28/2020	1,377	152	1,217	160
12/29/2020	1,580	319	1,252	328
12/30/2020	1,421	156	1,257	165
12/31/2020	1,548	307	1,233	315
	gpm	**gpd**		
Average	**1,463**	**2,107,145**		
Peak	**1,697**	**2,444,369**	**Peak Date**	**12/11/2020**

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 2020 are included as Attachment A. The grease traps have continued to be pumped twice a month for the H2 reporting period.

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

* * * *

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: 1/27/21

Signature: Mindy Koch Title: NM Corporate Services Manager

Authorized Representative

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: 1/07/21

Signature: Mindy Koch 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)

* * * *

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: 1/07/21

Signature: Mindy Koch Title: NM Corporate Services Manager

Authorized Representative

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.

Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
014539830FLE	7/1/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855585VES	7/1/2020	131519	LOOSEPACK FLAMMABLE WASTE	11	0.01
001855585VES	7/1/2020	202100	IPA CONTAMINATED WIPES	552	0.28
001855585VES	7/1/2020	202100	IPA CONTAMINATED WIPES	513	0.26
001855585VES	7/1/2020	202100	IPA CONTAMINATED WIPES	474	0.24
001855585VES	7/1/2020	202100	IPA CONTAMINATED WIPES	534	0.27
001855585VES	7/1/2020	202100	IPA CONTAMINATED WIPES	510	0.26
001855585VES	7/1/2020	202100	IPA CONTAMINATED WIPES	472	0.24
001855585VES	7/1/2020	366524	AEROSOL CANS	22	0.01
001855585VES	7/1/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	121	0.06
001855585VES	7/1/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	114	0.06
001855585VES	7/1/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	129	0.06
001855585VES	7/1/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	91	0.05
001855585VES	7/1/2020	693403	SOLVENTS, SPIN ON GLASS	250	0.13
001855585VES	7/1/2020	713455	AEROSOLS - FOOD SERVICE	14	0.01
001855585VES	7/1/2020	317498	P4 TRAPS FOR INCINERATION RC9330	178	0.09
001855585VES	7/1/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	124	0.06
001855585VES	7/1/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	154	0.08
001855585VES	7/1/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	157	0.08
001855585VES	7/1/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	132	0.07
001855585VES	7/1/2020	399773	SOLVENTS, HMDS	20	0.01
001855585VES	7/1/2020	399825	EDT PARTS	176	0.09
001855585VES	7/1/2020	399825	EDT PARTS	179	0.09
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	106	0.05
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	89	0.04
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	117	0.06
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	276	0.14
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	153	0.08

001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	142	0.07
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	184	0.09
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	135	0.07
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	226	0.11
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	132	0.07
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	131	0.07
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	134	0.07
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	143	0.07
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	152	0.08
001855585VES	7/1/2020	442913	DEBRIS, ARSENIC	136	0.07
001855585VES	7/1/2020	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	283	0.14
001855585VES	7/1/2020	442923	BROKEN MERCURY LIGHT BULBS	4	0.00
001855585VES	7/1/2020	442983	REPEATING LABPACK	11	0.01
001855585VES	7/1/2020	683966	PHOTORESIST RESIN	110	0.06
001855585VES	7/1/2020	691900	DEBRIS, HOUSE VACUUM	93	0.05
001855585VES	7/1/2020	692557	CYLINDERS, COMPRESSED GASES	24	0.01
001855585VES	7/1/2020	713453	HMDS DEBRIS	67	0.03
014539831FLE	7/2/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539363FLE	7/2/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014538234FLE	7/3/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539832FLE	7/3/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014159290FLE	7/3/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014539835FLE	7/3/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014538219FLE	7/6/2020	Decant PBR-40	Decant Drum PBR 800	21	0.01
014538235FLE	7/6/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539833FLE	7/6/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539836FLE	7/6/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855568VES	7/6/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41600	20.80
014538236FLE	7/7/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539834FLE	7/7/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539837FLE	7/7/2020	DECANT HCL37%	Decant HCl37%	76	0.04

014538237FLE	7/8/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
019447888JJK	7/8/2020	7919597	WXSCH4200SNDFR	1540	0.77
014765922FLE	7/9/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001508870VES	7/9/2020	483253	SOLVENT, GENERAL-MIXED	37060	18.53
014159291FLE	7/9/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538238FLE	7/10/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539838FLE	7/10/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014538220FLE	7/13/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014538239FLE	7/13/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014765923FLE	7/13/2020	DECANT OPD4262	Decant OPD4262	99	0.05
001855601VES	7/13/2020	256683	CLEANSORB COLUMNS	765	0.38
014539839FLE	7/13/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855569VES	7/13/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	38020	19.01
013211224FLE	7/14/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014765924FLE	7/14/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539840FLE	7/14/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014765925FLE	7/15/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014159300FLE	7/15/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014539841FLE	7/15/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014765926FLE	7/16/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014538240FLE	7/16/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014765927FLE	7/17/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539842FLE	7/17/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014765931FLE	7/20/2020	DECANT OPD4262	Decant OPD4262	99	0.05
001855602VES	7/20/2020	256683	CLEANSORB COLUMNS	765	0.38
014539843FLE	7/20/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539805FLE	7/20/2020	DECANT PBR-40	Decant Drum PBR 800	21	0.01
014765932FLE	7/20/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01

014765928FLE	7/21/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539844FLE	7/22/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013211171FLE	7/23/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014765933FLE	7/23/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014765929FLE	7/23/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014159301FLE	7/23/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
001855570VES	7/23/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	39340	19.67
014765930FLE	7/24/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539845FLE	7/24/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014766312FLE	7/27/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539846FLE	7/27/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539806FLE	7/27/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014765934FLE	7/27/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014766313FLE	7/28/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539847FLE	7/29/2020	DECANT HCL37%	Decant HCl37%	38	0.02
012708159FLE	7/29/2020	Dec CLK-222	Decant Drum CLK-222, Corrosive	5	0.00
014766314FLE	7/30/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855571VES	7/30/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41240	20.62
014539807FLE	7/30/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
013211172FLE	7/31/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014539374FLE	7/31/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014539848FLE	7/31/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539808FLE	7/31/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014765935FLE	7/31/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
013211225FLE	8/3/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014766315FLE	8/3/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855520VES	8/3/2020	448115	SOLVENT, GENERAL FAB 11S	39820	19.91
014539849FLE	8/3/2020	DECANT HCL37%	Decant HCl37%	38	0.02

014765936FLE	8/3/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001855604VES	8/4/2020	256683	CLEANSORB COLUMNS	765	0.38
014766316FLE	8/4/2020	DECANT OPD4262	Decant OPD4262	66	0.03
019447889JJK	8/5/2020	7919597	WXSCH4200SNDFR	1642	0.82
014539364FLE	8/5/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014765937FLE	8/6/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014766317FLE	8/6/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539365FLE	8/7/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539375FLE	8/7/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014765938FLE	8/7/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539366FLE	8/10/2020	DECANT HCL37%	Decant HCl37%	76	0.04
001855572VES	8/10/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	39640	19.82
014539809FLE	8/10/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014766318FLE	8/10/2020	DECANT OPD4262	Decant OPD4262	132	0.07
014765939FLE	8/11/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539367FLE	8/12/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539809FLE	8/10/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014766318FLE	8/10/2020	DECANT OPD4262	Decant OPD4262	132	0.07
014765939FLE	8/11/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539367FLE	8/12/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539810FLE	8/12/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014766319FLE	8/13/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014158919FLE	8/14/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014539372FLE	8/14/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014765940FLE	8/14/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539373FLE	8/17/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539376FLE	8/17/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
001855573VES	8/17/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41960	20.98

014539811FLE	8/17/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014765941FLE	8/17/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014766320FLE	8/17/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014766347FLE	8/18/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014766321FLE	8/18/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539368FLE	8/19/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014766322FLE	8/19/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014766323FLE	8/20/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539369FLE	8/21/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014766348FLE	8/21/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014766324FLE	8/21/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014158920FLE	8/24/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
001855521VES	8/24/2020	448115	SOLVENT, GENERAL FAB 11S	38940	19.47
014539370FLE	8/24/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539377FLE	8/24/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014158920FLE	8/24/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014539812FLE	8/24/2020	Decant PBR-40	Decant Drum PBR 800	21	0.01
014766349FLE	8/24/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014162484FLE	8/24/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014766325FLE	8/24/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539371FLE	8/25/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014777044FLE	8/25/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014766326FLE	8/25/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014777045FLE	8/26/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015161557FLE	8/26/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014766327FLE	8/27/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855574VES	8/27/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	39460	19.73

014766328FLE	8/28/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161559FLE	8/28/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001508871VES	8/31/2020	483253	SOLVENT, GENERAL-MIXED	38840	19.42
014766329FLE	8/31/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855617VES	8/31/2020	663314	ROS CYLINDER SPENT RESIN FROM CLEANSORB	372	0.19
014539813FLE	8/31/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014777046FLE	8/31/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539378FLE	8/31/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015161560FLE	8/31/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014766330FLE	9/1/2020	DECANT HCL37%	Decant HCl37%	38	0.02
019447890JJK	9/2/2020	7919597	WXSCH4200SNDFR	1590	0.80
015161561FLE	9/2/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855575VES	9/3/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	36840	18.42
014777047FLE	9/3/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014766331FLE	9/4/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539814FLE	9/4/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015161562FLE	9/4/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014158921FLE	9/8/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014766332FLE	9/8/2020	DECANT HCL37%	Decant HCl37%	114	0.06
014777048FLE	9/8/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539379FLE	9/8/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015161563FLE	9/8/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539815FLE	9/9/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015161564FLE	9/9/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855619VES	9/10/2020	549398	CONCENTRATED COPPER WASTE (CCW) - MAINT.	20540	10.27
014766333FLE	9/10/2020	DECANT HCL37%	Decant HCl37%	38	0.02

001855576VES	9/10/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	32360	16.18
014777049FLE	9/10/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014766334FLE	9/11/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161565FLE	9/11/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539380FLE	9/14/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014766335FLE	9/14/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014777050FLE	9/14/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014162485FLE	9/14/2020	DECANT AD10	AD10 Decant Totes	16	0.01
015161566FLE	9/14/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014766336FLE	9/15/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014766337FLE	9/15/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015161567FLE	9/15/2020	DECANT OPD4262	Decant OPD4262	33	0.02
019447891JJK	9/16/2020	9919333	WXCEN4200SNWVD	2075	1.04
019447891JJK	9/16/2020	7919597	WXSCH4200SNDFR	1474	0.74
015161577FLE	9/16/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161568FLE	9/16/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001508872VES	9/17/2020	483253	SOLVENT, GENERAL-MIXED	39360	19.68
014539816FLE	9/17/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014766338FLE	9/17/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015161569FLE	9/17/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015161578FLE	9/18/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539817FLE	9/18/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015161570FLE	9/18/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014158922FLE	9/21/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
001855624VES	9/21/2020	256683	CLEANSORB COLUMNS	765	0.38
001855624VES	9/21/2020	317498	P4 TRAPS FOR INCINERATION RC9330	182	0.09
001855607VES	9/21/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	39800	19.90
014766339FLE	9/21/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01

014539381FLE	9/21/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015161571FLE	9/21/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015161579FLE	9/21/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161572FLE	9/22/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015161573FLE	9/23/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015161580FLE	9/23/2020	DECANT HCL37%	Decant HCl37%	76	0.04
001855626VES	9/24/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	127	0.06
001855626VES	9/24/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	121	0.06
001855626VES	9/24/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	128	0.06
001855626VES	9/24/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	58	0.03
001855626VES	9/24/2020	131484	PHOTORESIST WASTE	336	0.17
001855626VES	9/24/2020	202100	IPA CONTAMINATED WIPES	483	0.24
001855626VES	9/24/2020	202100	IPA CONTAMINATED WIPES	529	0.26
001855626VES	9/24/2020	202100	IPA CONTAMINATED WIPES	516	0.26
001855626VES	9/24/2020	202100	IPA CONTAMINATED WIPES	542	0.27
001855626VES	9/24/2020	202100	IPA CONTAMINATED WIPES	506	0.25
001855626VES	9/24/2020	202100	IPA CONTAMINATED WIPES	361	0.18
001855626VES	9/24/2020	693403	SOLVENTS, SPIN ON GLASS	232	0.12
001855626VES	9/24/2020	862444	MIXED HPCS AND IPA	342	0.17
001855626VES	9/24/2020	442983	REPEATING LABPACK	12	0.01
001855626VES	9/24/2020	683966	PHOTORESIST RESIN	80	0.04
001855626VES	9/24/2020	713453	HMDS DEBRIS	62	0.03
001855626VES	9/24/2020	442923	BROKEN MERCURY LIGHT BULBS	32	0.02
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	122	0.06
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	140	0.07
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	111	0.06
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	151	0.08
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	172	0.09
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	180	0.09
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	174	0.09
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	165	0.08

001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	134	0.07
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	150	0.08
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	76	0.04
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	133	0.07
001855626VES	9/24/2020	442913	DEBRIS, ARSENIC	124	0.06
001855626VES	9/24/2020	586713	DILUTE MIXED PARATHERM AND IPA	335	0.17
001855626VES	9/24/2020	691900	DEBRIS, HOUSE VACUUM	90	0.05
001855626VES	9/24/2020	399825	EDT PARTS	188	0.09
001855626VES	9/24/2020	713454	CCW FILTERS, WIPES, ABSORBENTS, PPE	194	0.10
001855626VES	9/24/2020	822140	CORROSIVE TOXIC LIQUID WASTE	12	0.01
001855626VES	9/24/2020	61641	LEAD-ACID BATTERIES (DAMAGED)	14	0.01
014766340FLE	9/24/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
012827733FLE	9/24/2020	DEC CLK-222	Decant Drum CLK-222,corrosive	10	0.01
015161574FLE	9/25/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015161581FLE	9/25/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855608VES	9/28/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	35860	17.93
014539818FLE	9/28/2020	DECANT PBR-40	Decant Drum PBR 800	21	0.01
014766341FLE	9/28/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539382FLE	9/28/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015161575FLE	9/28/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015161582FLE	9/28/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162486FLE	9/29/2020	DECANT AD10	AD10 Decant Totes	16	0.01
015162372FLE	9/29/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014158923FLE	9/30/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014766342FLE	9/30/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015161583FLE	9/30/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161584FLE	10/1/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015162374FLE	10/1/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015161585FLE	10/2/2020	DECANT HCL37%	Decant HCl37%	38	0.02

015162376FLE	10/2/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539383FLE	10/5/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014539819FLE	10/5/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014766343FLE	10/5/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
015161586FLE	10/5/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015162377FLE	10/5/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014766344FLE	10/6/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162383FLE	10/6/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161552FLE	10/7/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162378FLE	10/7/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855609VES	10/8/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40480	20.24
014777051FLE	10/8/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015162379FLE	10/8/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162379FLE	10/8/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014766345FLE	10/9/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162384FLE	10/9/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855577VES	10/12/2020	448115	SOLVENT, GENERAL FAB 11S	40760	20.38
015162380FLE	10/12/2020	DECANT OPD4262	Decant OPD4262	99	0.05
015162385FLE	10/12/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014766346FLE	10/13/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015161553FLE	10/13/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162386FLE	10/13/2020	DECANT HCL37%	Decant HCl37%	38	0.02
011248262FLE	10/14/2020	DECANCMPCLEANBG	Decant Drum CMP Cleaner BG1	10	0.01
014777052FLE	10/14/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
019447892JJK	10/14/2020	7919597	WXSCH4200SNDFR	1562	0.78
001855610VES	10/15/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	35920	17.96
015161592FLE	10/15/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01

015162381FLE	10/15/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162382FLE	10/16/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162387FLE	10/16/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161554FLE	10/19/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
015161593FLE	10/19/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162388FLE	10/19/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015162784FLE	10/19/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014158924FLE	10/20/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
015162389FLE	10/20/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015162785FLE	10/20/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015161594FLE	10/21/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162390FLE	10/21/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855611VES	10/22/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	30240	15.12
014777053FLE	10/22/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015161555FLE	10/22/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162391FLE	10/22/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015162786FLE	10/22/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015161595FLE	10/26/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
015162392FLE	10/26/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015162787FLE	10/26/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014777054FLE	10/27/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015162823FLE	10/27/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161596FLE	10/28/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162788FLE	10/28/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015161556FLE	10/29/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
011248263FLE	10/30/2020	DecanCMPClean BG	Decant Drum CMP Cleaner BG1	10	0.01
014162487FLE	10/30/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014765911FLE	10/30/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01

015162789FLE	10/30/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162804FLE	10/30/2020	DECANT HCL37%	Decant HCl37%	76	0.04
001855612VES	11/2/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41820	20.91
014158925FLE	11/2/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
015161597FLE	11/2/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162790FLE	11/2/2020	DECANT OPD4262	Decant OPD4262	99	0.05
015162805FLE	11/2/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014777055FLE	11/3/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015161598FLE	11/3/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162791FLE	11/3/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162806FLE	11/3/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015162792FLE	11/4/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855578VES	11/5/2020	448115	SOLVENT, GENERAL FAB 11S	40640	20.32
001855672VES	11/5/2020	256683	CLEANSORB COLUMNS	765	0.38
015162793FLE	11/5/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162807FLE	11/5/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014765912FLE	11/6/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
015161599FLE	11/6/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014158926FLE	11/9/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014765913FLE	11/9/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015161600FLE	11/9/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162794FLE	11/9/2020	DECANT OPD4262	Decant OPD4262	99	0.05
015162808FLE	11/9/2020	DECANT HCL37%	Decant HCl37%	114	0.06
001855613VES	11/10/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41580	20.79
014777056FLE	11/10/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015162795FLE	11/10/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162796FLE	11/11/2020	DECANT OPD4262	Decant OPD4262	66	0.03
019447893JJK	11/11/2020	7919597	WXSCH4200SNDFR	1566	0.78

015162809FLE	11/12/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015161601FLE	11/13/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162797FLE	11/13/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014162488FLE	11/16/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014765914FLE	11/16/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162398FLE	11/16/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162798FLE	11/16/2020	DECANT OPD4262	Decant OPD4262	99	0.05
015162810FLE	11/16/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014777057FLE	11/17/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015162799FLE	11/17/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162811FLE	11/17/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014765915FLE	11/18/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162800FLE	11/18/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162812FLE	11/18/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855614VES	11/19/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41940	20.97
015162399FLE	11/19/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162400FLE	11/20/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162801FLE	11/20/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015275401FLE	11/20/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855693VES	11/23/2020	448115	SOLVENT, GENERAL FAB 11S	38860	19.43
015162401FLE	11/23/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015162802FLE	11/23/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015275402FLE	11/23/2020	DECANT HCL37%	Decant HCl37%	76	0.04
001855684VES	11/24/2020	256683	CLEANSORB COLUMNS	765	0.38
014765916FLE	11/24/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014777058FLE	11/24/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015162803FLE	11/24/2020	DECANT OPD4262	Decant OPD4262	33	0.02

015275403FLE	11/24/2020	DECANT HCL37%	Decant HCl37%	38	0.02
019447894JJK	11/24/2020	7919597	WXSCH4200SNDFR	2969	1.48
015162402FLE	11/25/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275422FLE	11/25/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014158927FLE	11/28/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014162489FLE	11/28/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014765917FLE	11/28/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162403FLE	11/28/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275404FLE	11/28/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015275424FLE	11/28/2020	DECANT OPD4262	Decant OPD4262	99	0.05
001855680VES	11/30/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	39600	19.80
015275405FLE	11/30/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015275425FLE	11/30/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015162404FLE	12/1/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275406FLE	12/1/2020	DECANT HCL37%	Decant HCl37%	38	0.02
012827734FLE	12/2/2020	DEC CLK-222	Decant Drum CLK-222,corrosive	10	0.01
014765918FLE	12/2/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014777059FLE	12/2/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015275426FLE	12/2/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015275407FLE	12/3/2020	DECANT HCL37%	Decant HCl37%	76	0.04
015275427FLE	12/3/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162405FLE	12/4/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001855691VES	12/7/2020	483253	SOLVENT, GENERAL-MIXED	41620	20.81
014765919FLE	12/7/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162406FLE	12/7/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275408FLE	12/7/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015275428FLE	12/7/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014158928FLE	12/8/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02

015275409FLE	12/8/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015275429FLE	12/8/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014777060FLE	12/9/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015162407FLE	12/9/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001855682VES	12/10/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40660	20.33
015275410FLE	12/10/2020	DECANT HCL37%	Decant HCl37%	76	0.04
015275430FLE	12/11/2020	DECANT OPD4262	Decant OPD4262	11	0.01
014765920FLE	12/15/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
015161587FLE	12/15/2020	DECANT AD10	AD10 Decant Totes	16	0.01
015162829FLE	12/15/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275411FLE	12/15/2020	DECANT HCL37%	Decant HCl37%	76	0.04
015275431FLE	12/15/2020	DECANT OPD4262	Decant OPD4262	66	0.03
015162393FLE	12/16/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162830FLE	12/16/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275412FLE	12/16/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001855683VES	12/17/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	39180	19.59
015275432FLE	12/17/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014777061FLE	12/18/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015275413FLE	12/18/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015275433FLE	12/18/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162831FLE	12/20/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275414FLE	12/20/2020	DECANT HCL37%	Decant HCl37%	76	0.04
015275434FLE	12/20/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855720VES	12/22/2020	131484	PHOTORESIST WASTE	348	0.17
001855720VES	12/22/2020	202100	IPA CONTAMINATED WIPES	490	0.25
001855720VES	12/22/2020	202100	IPA CONTAMINATED WIPES	524	0.26
001855720VES	12/22/2020	202100	IPA CONTAMINATED WIPES	563	0.28

001855720VES	12/22/2020	202100	IPA CONTAMINATED WIPES	480	0.24
001855720VES	12/22/2020	202100	IPA CONTAMINATED WIPES	544	0.27
001855720VES	12/22/2020	317498	P4 TRAPS FOR INCINERATION RC9330	83	0.04
001855720VES	12/22/2020	317498	P4 TRAPS FOR INCINERATION RC9330	85	0.04
001855720VES	12/22/2020	317498	P4 TRAPS FOR INCINERATION RC9330	45	0.02
001855720VES	12/22/2020	366524	AEROSOL CANS	35	0.02
001855720VES	12/22/2020	384579	VACUUM W/ TRACE PHOSPHORUS AND ARESENIC	320	0.16
001855720VES	12/22/2020	384579	VACUUM W/ TRACE PHOSPHORUS AND ARESENIC	99	0.05
001855720VES	12/22/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	106	0.05
001855720VES	12/22/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	72	0.04
001855720VES	12/22/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	169	0.08
001855720VES	12/22/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	90	0.05
001855720VES	12/22/2020	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	150	0.08
001855720VES	12/22/2020	399825	EDT PARTS	113	0.06
001855720VES	12/22/2020	399825	EDT PARTS	174	0.09
001855720VES	12/22/2020	399825	EDT PARTS	167	0.08
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	614	0.31
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	212	0.11
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	74	0.04
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	126	0.06
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	124	0.06
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	127	0.06
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	156	0.08
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	106	0.05
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	112	0.06
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	118	0.06
001855720VES	12/22/2020	442913	DEBRIS, ARSENIC	246	0.12
001855720VES	12/22/2020	442983	REPEATING LABPACK	17	0.01
001855720VES	12/22/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	139	0.07
001855720VES	12/22/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	129	0.06
001855720VES	12/22/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	124	0.06

001855720VES	12/22/2020	586713	DILUTE MIXED PARATHERM AND IPA	376	0.19
001855720VES	12/22/2020	683966	PHOTORESIST RESIN	82	0.04
001855720VES	12/22/2020	691900	DEBRIS, HOUSE VACUUM	122	0.06
001855720VES	12/22/2020	692557	CYLINDERS, COMPRESSED GASES	24	0.01
001855720VES	12/22/2020	693403	SOLVENTS, SPIN ON GLASS	255	0.13
001855720VES	12/22/2020	713453	HMDS DEBRIS	60	0.03
001855720VES	12/22/2020	713455	AEROSOLS - FOOD SERVICE	2	0.00
001855720VES	12/22/2020	862445	TOXIC WAFER WASTE	19	0.01
014539395FLE	12/22/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
015275415FLE	12/22/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015275435FLE	12/22/2020	DECANT OPD4262	Decant OPD4262	33	0.02
022040588JJK	12/22/2020	7919597	WXSCH4200SNDFR	1731	0.87
015162394FLE	12/23/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
015161588FLE	12/25/2020	DECANT AD10	AD10 Decant Totes	120	0.06
015162395FLE	12/25/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
015162832FLE	12/25/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275416FLE	12/25/2020	DECANT HCL37%	Decant HCl37%	76	0.04
015275436FLE	12/25/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855690VES	12/28/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40780	20.39
014539396FLE	12/28/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014777062FLE	12/28/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
015162813FLE	12/28/2020	DECANT HCL37%	Decant HCl37%	76	0.04
015162833FLE	12/28/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
015275437FLE	12/28/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015275438FLE	12/29/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014768071FLE	12/30/2020	DECANT HCL37%	Decant HCl37%	38	0.02
015275439FLE	12/30/2020	DECANT OPD4262	Decant OPD4262	33	0.02
015162834FLE	12/31/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01

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 2020 – August 2020

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)
7/1/2020	6.36	0.00	9.87	0.00	8/1/2020	6.35	0.00	10.11	0.00
7/2/2020	6.28	0.00	8.17	0.00	8/2/2020	6.46	0.00	10.15	0.00
7/3/2020	6.41	0.00	9.60	0.00	8/3/2020	6.31	0.00	10.23	0.00
7/4/2020	6.53	0.00	9.71	0.00	8/4/2020	6.40	0.00	10.42	0.00
7/5/2020	6.54	0.00	9.69	0.00	8/5/2020	5.72	0.00	10.17	0.00
7/6/2020	6.56	0.00	9.73	0.00	8/6/2020	6.30	0.00	10.18	0.00
7/7/2020	6.38	0.00	9.79	0.00	8/7/2020	6.39	0.00	9.97	0.00
7/8/2020	6.47	0.00	9.70	0.00	8/8/2020	6.39	0.00	9.80	0.00
7/9/2020	6.56	0.00	9.75	0.00	8/9/2020	6.43	0.00	9.67	0.00
7/10/2020	6.57	0.00	9.40	0.00	8/10/2020	6.46	0.00	9.83	0.00
7/11/2020	6.38	0.00	10.02	0.00	8/11/2020	6.71	0.00	10.00	0.00
7/12/2020	6.29	0.00	9.87	0.00	8/12/2020	6.70	0.00	9.73	0.00
7/13/2020	6.26	0.00	9.58	0.00	8/13/2020	6.35	0.00	9.55	0.00
7/14/2020	6.25	0.00	9.78	0.00	8/14/2020	6.23	0.00	9.96	0.00
7/15/2020	6.65	0.00	10.14	0.00	8/15/2020	6.43	0.00	9.88	0.00
7/16/2020	6.66	0.00	10.02	0.00	8/16/2020	6.69	0.00	9.81	0.00
7/17/2020	6.59	0.00	10.12	0.00	8/17/2020	6.47	0.00	9.50	0.00
7/18/2020	6.47	0.00	9.61	0.00	8/18/2020	6.47	0.00	9.59	0.00
7/19/2020	6.32	0.00	9.18	0.00	8/19/2020	6.44	0.00	9.99	0.00
7/20/2020	6.21	0.00	9.83	0.00	8/20/2020	6.41	0.00	9.90	0.00
7/21/2020	6.34	0.00	10.00	0.00	8/21/2020	6.49	0.00	10.38	0.00
7/22/2020	6.13	0.00	10.10	0.00	8/22/2020	5.65	0.00	10.11	0.00
7/23/2020	6.57	0.00	10.08	0.00	8/23/2020	6.90	0.00	9.93	0.00
7/24/2020	6.68	0.00	9.87	0.00	8/24/2020	6.65	0.00	9.99	0.00
7/25/2020	6.32	0.00	10.60	0.00	8/25/2020	6.66	0.00	9.77	0.00
7/26/2020	6.47	0.00	9.95	0.00	8/26/2020	6.59	0.00	10.07	0.00
7/27/2020	6.26	0.00	9.99	0.00	8/27/2020	6.56	0.00	9.57	0.00
7/28/2020	6.41	0.00	9.87	0.00	8/28/2020	6.76	0.00	10.07	0.00
7/29/2020	6.42	0.00	10.04	0.00	8/29/2020	6.52	0.00	10.01	0.00
7/30/2020	6.28	0.00	10.17	0.00	8/30/2020	6.35	0.00	10.24	0.00
7/31/2020	6.38	0.00	10.23	0.00	8/31/2020	6.41	0.00	9.66	0.00
		Total Time pH Out of Range:		0			Total Time pH Out of Range:		0

September 2020 – October 2020

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)
9/1/2020	6.17	0.00	9.85	0.00	10/1/2020	6.32	0.00	9.66	0.00
9/2/2020	6.13	0.00	9.22	0.00	10/2/2020	6.44	0.00	9.95	0.00
9/3/2020	5.75	0.00	9.45	0.00	10/3/2020	6.60	0.00	9.87	0.00
9/4/2020	6.25	0.00	9.35	0.00	10/4/2020	6.45	0.00	9.72	0.00
9/5/2020	6.48	0.00	8.85	0.00	10/5/2020	6.53	0.00	9.55	0.00
9/6/2020	6.43	0.00	9.86	0.00	10/6/2020	6.31	0.00	9.64	0.00
9/7/2020	6.50	0.00	9.99	0.00	10/7/2020	6.36	0.00	9.99	0.00
9/8/2020	6.40	0.00	9.66	0.00	10/8/2020	6.36	0.00	9.69	0.00
9/9/2020	6.31	0.00	9.73	0.00	10/9/2020	6.58	0.00	9.42	0.00
9/10/2020	6.28	0.00	10.14	0.00	10/10/2020	6.52	0.00	9.72	0.00
9/11/2020	6.28	0.00	9.85	0.00	10/11/2020	6.17	0.00	9.76	0.00
9/12/2020	6.46	0.00	10.13	0.00	10/12/2020	6.52	0.00	9.76	0.00
9/13/2020	6.01	0.00	9.19	0.00	10/13/2020	6.61	0.00	9.48	0.00
9/14/2020	6.01	0.00	10.04	0.00	10/14/2020	6.57	0.00	9.80	0.00
9/15/2020	6.43	0.00	9.85	0.00	10/15/2020	6.50	0.00	9.35	0.00
9/16/2020	6.42	0.00	9.64	0.00	10/16/2020	6.66	0.00	9.80	0.00
9/17/2020	6.45	0.00	9.37	0.00	10/17/2020	6.56	0.00	9.94	0.00
9/18/2020	6.54	0.00	10.03	0.00	10/18/2020	6.55	0.00	9.88	0.00
9/19/2020	6.52	0.00	9.84	0.00	10/19/2020	6.48	0.00	9.84	0.00
9/20/2020	6.35	0.00	10.34	0.00	10/20/2020	6.45	0.00	10.04	0.00
9/21/2020	6.40	0.00	10.08	0.00	10/21/2020	6.55	0.00	9.79	0.00
9/22/2020	6.62	0.00	10.08	0.00	10/22/2020	6.58	0.00	9.89	0.00
9/23/2020	6.63	0.00	9.83	0.00	10/23/2020	6.52	0.00	9.90	0.00
9/24/2020	6.52	0.00	10.04	0.00	10/24/2020	6.73	0.00	10.04	0.00
9/25/2020	6.62	0.00	10.12	0.00	10/25/2020	6.31	0.00	10.02	0.00
9/26/2020	6.59	0.00	10.10	0.00	10/26/2020	6.55	0.00	9.93	0.00
9/27/2020	6.53	0.00	10.02	0.00	10/27/2020	6.46	0.00	9.83	0.00
9/28/2020	6.64	0.00	10.27	0.00	10/28/2020	6.54	0.00	10.00	0.00
9/29/2020	6.57	0.00	10.04	0.00	10/29/2020	6.58	0.00	9.79	0.00
9/30/2020	6.47	0.00	9.92	0.00	10/30/2020	6.68	0.00	10.09	0.00
					10/31/2020	6.58	0.00	10.18	0.00
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

November 2020 – December 2020

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)
11/1/2020	6.54	0.00	9.99	0.00	12/1/2020	6.37	0.00	9.99	0.00
11/2/2020	6.33	0.00	9.94	0.00	12/2/2020	6.42	0.00	9.01	0.00
11/3/2020	6.37	0.00	9.95	0.00	12/3/2020	6.41	0.00	9.60	0.00
11/4/2020	6.71	0.00	9.89	0.00	12/4/2020	6.46	0.00	9.71	0.00
11/5/2020	6.56	0.00	10.01	0.00	12/5/2020	6.52	0.00	9.84	0.00
11/6/2020	6.70	0.00	9.85	0.00	12/6/2020	6.50	0.00	9.81	0.00
11/7/2020	6.75	0.00	10.00	0.00	12/7/2020	6.54	0.00	9.30	0.00
11/8/2020	6.41	0.00	9.95	0.00	12/8/2020	6.27	0.00	9.70	0.00
11/9/2020	6.30	0.00	9.91	0.00	12/9/2020	6.65	0.00	9.62	0.00
11/10/2020	6.38	0.00	9.43	0.00	12/10/2020	6.33	0.00	9.77	0.00
11/11/2020	6.41	0.00	9.80	0.00	12/11/2020	6.32	0.00	8.93	0.00
11/12/2020	6.35	0.00	9.74	0.00	12/12/2020	6.55	0.00	9.80	0.00
11/13/2020	6.44	0.00	9.79	0.00	12/13/2020	6.48	0.00	9.78	0.00
11/14/2020	6.43	0.00	9.92	0.00	12/14/2020	6.54	0.00	9.36	0.00
11/15/2020	6.52	0.00	9.95	0.00	12/15/2020	6.33	0.00	9.62	0.00
11/16/2020	6.62	0.00	9.49	0.00	12/16/2020	6.34	0.00	9.69	0.00
11/17/2020	6.46	0.00	9.65	0.00	12/17/2020	6.47	0.00	9.72	0.00
11/18/2020	5.84	0.00	9.33	0.00	12/18/2020	6.39	0.00	9.66	0.00
11/19/2020	6.39	0.00	9.96	0.00	12/19/2020	6.50	0.00	10.06	0.00
11/20/2020	6.42	0.00	9.65	0.00	12/20/2020	6.41	0.00	9.85	0.00
11/21/2020	6.62	0.00	9.07	0.00	12/21/2020	6.18	0.00	8.92	0.00
11/22/2020	6.64	0.00	9.79	0.00	12/22/2020	6.12	0.00	8.77	0.00
11/23/2020	6.47	0.00	9.83	0.00	12/23/2020	6.34	0.00	9.84	0.00
11/24/2020	6.39	0.00	9.72	0.00	12/24/2020	6.22	0.00	9.83	0.00
11/25/2020	6.42	0.00	9.21	0.00	12/25/2020	6.26	0.00	9.75	0.00
11/26/2020	6.54	0.00	9.08	0.00	12/26/2020	6.29	0.00	8.53	0.00
11/27/2020	6.37	0.00	9.52	0.00	12/27/2020	6.24	0.00	9.87	0.00
11/28/2020	6.43	0.00	9.33	0.00	12/28/2020	6.35	0.00	9.90	0.00
11/29/2020	6.47	0.00	9.82	0.00	12/29/2020	6.45	0.00	10.17	0.00
11/30/2020	6.59	0.00	9.92	0.00	12/30/2020	6.24	0.00	10.02	0.00
					12/31/2020	6.23	0.00	9.52	0.00
		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)

Mindy Kahn

Authorized Representative

1/27/21

Date

ENDORSEMENT SWSP

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

COMPLIANCE REQUIREMENT: The concentration of the following pollutants at the permitted sampling point shall not exceed the discharge limits below:

Pollutant	Maximum For Any 1-Day	Monthly Average	Monitoring Frequency
Ammonia	5,418 lbs/day	2,200 lbs/day	Weekly*
Indium	0.30 mg/L	n/a	Semi-Annually**
Gallium	3.125 mg/L	n/a	Semi-Annually**
Platinum	0.10 mg/L	n/a	Semi-Annually**

MONITORING REQUIREMENT: *Ammonia: The permittee is required to sample the site discharge weekly (once per week) using Hach method 10031, or another method approved by the Industrial Pretreatment Engineer/Program (Pretreatment). **Indium, Gallium, and Platinum: The permittee is required to sample the site discharge semi-annually. Each semi-annual monitoring event must be performed four (4) days in a row.

All monitoring must be conducted using a 24 hour composite sampler at the permitted sample point. All analysis shall use 40 CFR 136 EPA approved methods unless approved by Pretreatment. 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 outfalls.

Monitoring by the permittee may be increased at the discretion of Pretreatment.

The Water Authority has the option of recouping the costs from the Permittee for Pretreatment sampling.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Pretreatment Engineer via telephone (505-289-3439) 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 shall be notified (505-289-3411). If any other limit is exceeded, follow standard permit reporting requirements.
The Permittee shall report Ammonia monthly results by the 10th of each month.
The Permittee shall report on a semi-annual basis via the Semi-Annual (SA) report all “Special Wastestream Pollutants” in a single report of that title. The report shall:

- Be provided in an excel spreadsheet format with all results, flow and lbs/day load calculated and compared against limits.

- Include all client reports to be in compliance with the SM Endorsement.
- Semi-Annually the Permittee shall conduct accuracy checks per the analytical method and submit the results with each semi-annual report.

In compliance with the Endorsement SWSP reporting requirements, Intel NM submitted Ammonia reports to ABCWUA on 8/07/2020, 9/08/2020, 10/08/2020, 11/09/2020, 12/03/2020 and 1/06/2020 which included Ammonia data collected during the second half of 2020. A summary of Intel NM's analytical method accuracy checks performed during H2 2020 is included on the next page.

Semi-annual sampling for Platinum, Indium and Gallium was conducted from October 5th through October 8th, 2020. Semi-annual sampling results are attached (Attachment C) for reference.

Requirements of Endorsement SWSP have been met for the reporting period of this Semi-Annual Report.

Date	Ammonia Analytical Accuracy Checks (10 ppm Standard)
7/1/2020	10.8
7/8/2020	9.9
7/15/2020	10.8
7/22/2020	9.5
7/30/2020	10.0
8/5/2020	10.3
8/12/2020	9.9
8/19/2020	10.1
8/26/2020	9.9
9/2/2020	9.9
9/9/2020	10.8
9/16/2020	10.8
9/23/2020	10.6
9/30/2020	10.8
10/7/2020	9.8
10/14/2020	10.9
10/21/2020	10.7
10/28/2020	9.1
11/4/2020	10.3
11/11/2020	10.1
11/18/2020	9.6
11/25/2020	9.0
12/2/2020	10.4
12/9/2020	9.1
12/16/2020	10.3
12/23/2020	10.3
12/30/2020	10.4

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 October 2019 and submitted to ABCWUA at the time of revision. The October 2019 updated version of the TOMP accurately reflects current site operations.

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:	1/27/21
Signature:	Authorized Representative	Title:	NM Site Corporate Services Manager

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, sampling was conducted for Ethylene Glycol (EG) and 1-Methyl-2-pyrrilidinone (NMP) at Intel's outfall on August 18th, 2020. Intel NM received analytical results on August 31st, 2020 and submitted the results to ABCWUA on September 8th, 2020. EG and NMP in recent years have been included in our semi-annual reporting of our endorsement regulated metals. Both are analytes currently reported by our site for the EPA's Toxic Release Inventory (TRI) annual reporting, and this additional sampling has been implemented to bolster the data collected for use in TRI annual reporting. Neither analytes have a sampling established procedure in 40 CFR 136, but were submitted to ABCWUA per Endorsement SM guidelines. The sample report results are included as Attachment D.

In compliance with Endorsement SM, semi-annual sampling for the special waste stream pollutants indium, gallium and platinum was conducted from October 5th through October 8th, 2020. Intel NM received analytical results on October 27th, 2020 and submitted the results to ABCWUA on November 10th, 2020. The sample report results are included as Attachment C.

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 2020 - December 2020

Water Use Reduction Projects:

With Intel's continued growth in 2020, tool installation was tracked to ensure all new tools have an Ultra Pure Water (UPW) return line in efforts to reduce water usage. New tools are also programmed to Ultra Pure Recycle Water if not plumbed to UPW return.

Source Reduction Projects:

None for this time period.

NM Site Recycling:

The Intel New Mexico has a site wide recycling rate goal of 90% that encompasses all waste sources. In H2'2020, Intel New Mexico upcycled 33% of manufacturing waste

Calcium fluoride (CaF) sludge, a byproduct of Intel NM's hydrofluoric waste treatment operations, accounts for approximately 98% of the facility's non-hazardous chemical waste. CaF sludge is a useful product for a variety of purposes, including as an additive in cement and ceramic material mixtures. CaF sludge shipments from Intel NM during H2 2020 amounted to approximately 490 tons, 100% of which was recycled. Intel has gone to great lengths to partner with and provide CaF Sludge to a number of industrial users in order to maintain Intel NM's 100% CaF Sludge recycle rate and ensure that none of it goes to waste, even as market demand fluctuates.

Attachments

Attachment A - Intel NM Grease Trap Pumping Manifests – H2 2020

Attachment B - Weekly Cerium Sampling Reports

Attachment C - Semi-Annual Monitoring Analytical Results

Attachment D - Self-Monitoring Analytical Results – NMP and Ethylene Glycol

ATTACHMENT A

Intel NM Grease Trap Pumping Manifest – H2 2020

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
72721

WASTE PRODUCER

PRODUCER'S NAME Intel RRS PHONE

ADDRESS 4100 Sara Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X DATE 7/10/20

APPROX. GALLONS 150 DATE OF COLLECTION 7/10/20

WASTE TYPE:

☐ SAND OR GRIT ☑ GREASE

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Billy Hayo DATE 7/10/20 PERMIT NO. P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

25

Inspection Date 7-10-20 Service Date 7-10-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
✓ Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	9 Inches	
Depth of Solids	1.5 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

26

Inspection Date 7-10-20 Service Date 7-10-20 Technician/Company BILLY HARSO / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
✓Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/4 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

27

Inspection Date 7-10-20 Service Date 7-10-20 Technician/Company BILLY HARSO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap by Under Table [__], 20"	-	
✓ Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	Ø Inches = 1/16	
Depth of Solids	1 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

28

Inspection Date 7-10-20 Service Date 7-10-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
✓ Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
73792

WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE

ADDRESS 4100 Sara Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X DATE 7/24/20

APPROX. GALLONS 150 DATE OF COLLECTION 7/24/20

WASTE TYPE:

☐ SAND OR GRIT ☑ ~~GREASE~~

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X DATE 7/24/20 PERMIT NO. P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

25 Rio Rancho Grease Removal Device Report

Inspection Date 7-24-20 Service Date 7-24-20 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
✓ Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	9 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	(Yes)/No	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	(Yes)/No	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

26 Rio Rancho Grease Removal Device Report

Inspection Date 7-24-20 Service Date 7-24-20 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/2 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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	LINE OUT FROM TRAP CLOGGED AND GREY WATER OVERFLOWED TO SECONDARY
Total Gallons pumped out:	50 + 100 GALLON FROM SECONDARY TANK	
Location where grease was disposed of:	AAA PUMPING YARD – RECYCLED	

Report must be delivered to Intel EHS upon completion

27 Rio Rancho Grease Removal Device Report

Inspection Date 7-24-20 Service Date 7-24-20 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
✓ Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

28 Rio Rancho Grease Removal Device Report

Inspection Date 7-24-20 Service Date 7-24-20 Technician/Company BILLY/HARLEY/AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
✓ Trap by Coffee Area, NW [X], 15"	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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
73826

WASTE PRODUCER

PRODUCER'S NAME Intel LR5 PHONE

ADDRESS 4100 SARA Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X DATE 8/7/20

APPROX. GALLONS 150 DATE OF COLLECTION 8/7/20

WASTE TYPE:

☐ SAND OR GRIT ☐ ~~GREASE~~

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X DATE 8/7/20 PERMIT NO.

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 8-7-2020 Service Date 8-7-2020 Technician/Company BILLY HARSO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	9 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 8-7-2020 Service Date 8-7-2020 Technician/Company BILLY HARD / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
✓ Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/16 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 8-7-2020 Service Date 8-7-2020 Technician/Company BILLY HARD / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 8-7-2020 Service Date 8-7-2020 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	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 grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST

73986

WASTE PRODUCER

PRODUCER'S NAME Intel ARS PHONE

ADDRESS 4100 Sara Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X DATE 8/21/20

APPROX. GALLONS 150 DATE OF COLLECTION 8/21/20

WASTE TYPE:

☐ SAND OR GRIT ☑ GREASE

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Billy Hays DATE 8/21/20 PERMIT NO. P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 8-21-2020 Service Date 8-21-2020 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	9 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 8-21-2020 Service Date 8-21-2020 Technician/Company BILLY HARTO/AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/16 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 8-21-2020 Service Date 8-21-2020 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/16 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 8-21-2020 Service Date 8-21-2020 Technician/Company BILLY HARD / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
74028

WASTE PRODUCER

PRODUCER'S NAME Intel RTS PHONE

APPROX. GALLONS 150 DATE OF COLLECTION 9/11/20

ADDRESS 4100 Sara Rd

WASTE TYPE:

CITY Rio Rancho STATE NM ZIP

☐ SAND OR GRIT ☑ ~~GREASE~~

☐ OTHER - DESCRIBE

RESPON. PERSON X DATE 9/11/20

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X DATE 9/11/20 PERMIT NO 5942

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 9-11-2020 Service Date 9-11-2020 Technician/Company BILLY HARSO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap : Trap by Pot Wash [X], 20" Trap Under Table [__], 20" Trap by Office [__], 15" Trap by Coffee Area, NW [__], 15"	- - - Inches	
Depth of FOG (fats, oils, grease)	9 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 9-11-2020 Service Date 9-11-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/16 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 9-11-2020 Service Date 9-11-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/16 Inches	
Depth of Solids	0 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 9-11-2020 Service Date 9-11-2020 Technician/Company BILLY HARSO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD – RECYCLED	

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
74073

WASTE PRODUCER

PRODUCER'S NAME Intel LRS PHONE
ADDRESS 4100 Sara Rd
CITY Rio Rancho STATE NM ZIP
RESPON. PERSON X DATE 9/25/20

APPROX. GALLONS 150 DATE OF COLLECTION 9/25/20

WASTE TYPE:
☐ SAND OR GRIT ☐ GREASE
☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X DATE 9/25/20 PERMIT NO. P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 9-25-20 Service Date 9-25-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	10 Inches	
Depth of Solids	1 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 9-25-20 Service Date 9-25-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 9-25-20 Service Date 9-25-20 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD – RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 9-25-20 Service Date 9-25-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
74221

WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE

ADDRESS 4100 Sara Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X DATE 10/9/20

APPROX. GALLONS 150 DATE OF COLLECTION 10/9/20

WASTE TYPE:

☐ SAND OR GRIT ☒ GREASE

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Billy Hayes DATE 10/9/20 PERMIT NO. A1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 10-9-20 Service Date 10-9-20 Technician/Company BILLY HARTSO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	9 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 10-9-20 Service Date 10-9-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :	-	
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 10-9-20 Service Date 10-9-20 Technician/Company BILLY HARDY / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/8 Inches	
Depth of Solids	0 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 10-9-20 Service Date 10-9-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
75268

WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE

ADDRESS 4100 Sara Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X DATE 10/23/20

APPROX. GALLONS 150

DATE OF COLLECTION 10/23/20

WASTE TYPE:

☐ SAND OR GRIT ☑ GREASE

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X

DATE 10/23/20 PERMIT NO. 01

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 10-23-20 Service Date 10-23-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 10-23-20 Service Date 10-23-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	8 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 10-23-20 Service Date 10-23-20 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 10-23-20 Service Date 10-23-20 Technician/Company BILLY HARSO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
75290

WASTE PRODUCER

PRODUCER'S NAME Fatel RR5 PHONE ______

ADDRESS 4100 Ara Rd

CITY Rio Rancho STATE NM ZIP ______

RESPON. PERSON X [signature] DATE 1/1/6/20

APPROX. GALLONS 150 DATE OF COLLECTION 1/1/6/20

WASTE TYPE:

☐ SAND OR GRIT ☒ GREASE

☐ OTHER - DESCRIBE ______

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [signature] DATE 1/1/6/20 PERMIT NO. AL

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

FORM M2900

Rio Rancho Grease Removal Device Report

Inspection Date 11-6-2020 Service Date 11-6-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	10 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 11-6-2020 Service Date 11-6-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 11-6-2020 Service Date 11-6-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 11-6-2020 Service Date 11-6-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
75329

WASTE PRODUCER

PRODUCER'S NAME Intel LR5 PHONE

ADDRESS 4600 SARA Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X [signature] DATE 11/20/20

APPROX. GALLONS 150 DATE OF COLLECTION 11/20/20

WASTE TYPE:

☐ SAND OR GRIT ☐ ~~GREASE~~

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [signature] DATE 11/20 120 PERMIT NO. P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 11-20-2020 Service Date 11-20-2020 Technician/Company BILLY HARSO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :	-	
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	12 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	A LOT OF OIL
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 11-20-2020 Service Date 11-20-2020 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 11-20-2020 Service Date 11-20-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 11-20-2020 Service Date 11-20-2020 Technician/Company BILLY HARSO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1.5 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
76359

WASTE PRODUCER

PRODUCER'S NAME: Intel RR5 PHONE:
APPROX. GALLONS: 150
DATE OF COLLECTION: 12/4/20
ADDRESS: 4100 Sara Rd
WASTE TYPE:
CITY: Rio Rancho STATE: NM ZIP:
☐ SAND OR GRIT ☐ ~~GREASE~~
RESPON. PERSON: X ON BEHALF OF INTEL DATE: 12/4/20
☐ OTHER - DESCRIBE:

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE: X Billy Hayo DATE: 12/4/20 PERMIT NO.: P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 12-4-2020 Service Date 12-4-2020 Technician/Company BILLY HARSO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	9 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 12-4-2020 Service Date 12-4-2020 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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	YES SCRAPED WALLS
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 12-4-2020 Service Date 12-4-2020 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 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 grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap 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 YARD - RECYCLED	

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 12-4-2020 Service Date 12-4-2020 Technician/Company BILLY HARJO/AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

AAA PUMPING SERVICE, INC.

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

DISPOSAL TRIP MANIFEST
76598

WASTE PRODUCER

PRODUCER'S NAME: Intel AR5 PHONE:
ADDRESS: 4100 Sara Rd
CITY: Rio Rancho STATE: NM ZIP:
RESPON. PERSON: X (ON BEHALF OF INTEL) DATE: 12/18/20

APPROX. GALLONS: 150
DATE OF COLLECTION: 12/18/20

WASTE TYPE:
☐ SAND OR GRIT ☐ ~~GREASE~~
☐ OTHER - DESCRIBE:

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE: X Billy Hanja DATE: 12/18/20 PERMIT NO. P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON PREMISES TO SHOW PROOF OF PUMPING & LEGAL WASTE DISPOSAL

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

Rio Rancho Grease Removal Device Report

Inspection Date 12-18-2020 Service Date 12-18-2020 Technician/Company BILLY HARSO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [X], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	10 Inches	
Depth of Solids	1 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	(Yes)/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 12-18-2020 Service Date 12-18-2020 Technician/Company BILLY HARJO / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/16 Inches	
Depth of Solids	1 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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

Rio Rancho Grease Removal Device Report

Inspection Date 12-18-2020 Service Date 12-18-2020 Technician/Company BILLY HARDY / AAA PUMPING

RR5 Grease Trap		*Comments*
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [__], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/16 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

Rio Rancho Grease Removal Device Report

Inspection Date 12-18-2020 Service Date 12-18-2020 Technician/Company BILLY HARSO / AAA PUMPING

RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [__], 20"	-	
Trap Under Table [__], 20"	-	
Trap by Office [__], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1.5 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/(No)	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/(No)	
Are the access covers in need of repair?	Yes/(No)	
FOG Passing by grease trap?	Yes/(No)	
Does grease trap need trap repair?	Yes/(No)	
Are there signs the grease trap walls may be deteriorating?	Yes/(No)	
Are there signs the grease trap may be leaking?	Yes/(No)	
Was the grease trap 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 YARD - RECYCLED

Report must be delivered to Intel EHS upon completion

ATTACHMENT B

Cerium Sampling Reports (June-December)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

August 18, 2020

Amy Reed

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Ceria Study OrderNo.: 2007079

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/30/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

August 3, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On July 3, 2020, Brooks Applied Labs (BAL) received four (4) aqueous samples. The samples were logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS
All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Client Services Manager
Brooks Applied Labs
Lydia@brooksapplied.com

Don Moran

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 3/23/2020)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Please see narrative for explanation.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
M Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI

Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 1, 2019; Valid to: June 30, 2020
Certificate Number: E87982-33

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
EPA 1632A	Non-Potable Waters	Inorganic Arsenic, As(III)
	Biological	Inorganic Arsenic
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness

Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: January 10, 2020; Valid to: March 30, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod BAL-5000	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn	Ag, As, Cd, Cr, Cu, Pb, Ni, Se, Zn
EPA 1640 Mod	Non-Potable Waters	Ag, As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Tl, V, Zn	Not Accredited
EPA 1631E Mod BAL-3100 (waters) BAL-3101 (solids)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters Solids/Chemicals	Inorganic Arsenic, As(III)	Inorganic Arsenic. As(III) for waters only.
	Biological/Food	Inorganic Arsenic	Inorganic Arsenic (excluding Food)
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4200	Non-Potable Waters	Se(IV), Se(VI), SeCN	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2
(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1
(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2007079-001A	2027093-01	Water	Sample	06/07/2020	07/03/2020
2007079-002A	2027093-02	Water	Sample	06/14/2020	07/03/2020
2007079-003A	2027093-03	Water	Sample	06/21/2020	07/03/2020
2007079-004A	2027093-04	Water	Sample	06/28/2020	07/03/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	07/16/2020	07/18/2020	B201881	2000908

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2007079-001A										
2027093-01	Ce	Water	TR	238		0.008	0.080	µg/L	B201881	2000908
2007079-002A										
2027093-02	Ce	Water	TR	220		0.008	0.080	µg/L	B201881	2000908
2007079-003A										
2027093-03	Ce	Water	TR	243		0.008	0.080	µg/L	B201881	2000908
2007079-004A										
2027093-04	Ce	Water	TR	179		0.008	0.080	µg/L	B201881	2000908

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Accuracy & Precision Summary

Batch: B201881
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B201881-BS1	**Blank Spike, (1940023)**						
	Ce		400.0	400.2	µg/L	100% 75-125	
B201881-DUP1	**Duplicate, (2027093-04)**						
	Ce	179.4		201.1	µg/L		11% 20
B201881-MS1	**Matrix Spike, (2027093-04)**						
	Ce	179.4	400.0	630.7	µg/L	113% 75-125	
B201881-MSD1	**Matrix Spike Duplicate, (2027093-04)**						
	Ce	179.4	400.0	649.9	µg/L	118% 75-125	3% 20

Method Blanks & Reporting Limits

Batch: B201881
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B201881-BLK1	0.0004	µg/L
B201881-BLK2	0.0005	µg/L
B201881-BLK3	0.0003	µg/L
B201881-BLK4	0.0004	µg/L

Average: 0.000
Limit: 0.080

MDL: 0.008
MRL: 0.080

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2027093-01
Sample: 2007079-001A
Report Matrix: Water
Sample Type: Sample
Collected: 06/07/2020
Received: 07/03/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	unk. HNO3 (Client)	n/a	<2	Cooler 1 - 2027093

Lab ID: 2027093-02
Sample: 2007079-002A
Report Matrix: Water
Sample Type: Sample
Collected: 06/14/2020
Received: 07/03/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	unk. HNO3 (Client)	n/a	<2	Cooler 1 - 2027093

Lab ID: 2027093-03
Sample: 2007079-003A
Report Matrix: Water
Sample Type: Sample
Collected: 06/21/2020
Received: 07/03/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	unk. HNO3 (Client)	n/a	<2	Cooler 1 - 2027093

Lab ID: 2027093-04
Sample: 2007079-004A
Report Matrix: Water
Sample Type: Sample
Collected: 06/28/2020
Received: 07/03/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	unk. HNO3 (Client)	n/a	<2	Cooler 1 - 2027093

Shipping Containers

Cooler 1 - 2027093

Received: July 3, 2020 7:40
Tracking No: 7708 6460 8326 via FedEx
Coolant Type: Blue Ice
Temperature: 0.9 °C

Description: Cooler 1
Damaged in transit? No
Returned to client? No
Comments: IR#: 19

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2027093	**Project Manager:** Amanda
Labeled: JMG 7/3/20	
pH checked: SKS 7/3/20	
Preserved: N/A **Time:**	ADD LIMS MEMO
Syringe filtered: **Time:** N/A	
Poured off/split: N/A	
Stored: JMG 7/3/20	
Other (specify: _____): N/A	
Non-conformance notes: N/A	
Initial/date: JMG 7/3/20	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: clients.hallenvironmental.com

BAL Report 2027093

SUB CONTRATOR: **Brooks Applied Labs**	COMPANY: **Brooks Applied Labs**	PHONE: **(206) 632-6206**	FAX: **(206) 632-6017**
ADDRESS: **18804 North Creek Pkwy, Ste 100**		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: **Bothell, WA 98011**			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2007079-001A	June Ceria	250HDPEHNO3	Aqueous	6/7/2020 9:00:00 AM	1	CERIUM
2	2007079-002A	June Ceria	250HDPEHNO3	Aqueous	6/14/2020 9:00:00 AM	1	CERIUM
3	2007079-003A	June Ceria	250HDPEHNO3	Aqueous	6/21/2020 9:00:00 AM	1	CERIUM
4	2007079-004A	June Ceria	250HDPEHNO3	Aqueous	6/28/2020 9:00:00 AM	1	CERIUM

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 7/1/2020	Time: 4:01 PM	Received By: Spencer Shilmyer	Date: 7/3/20	Time: 7:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☑ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID:ABQA (505) 345-3975
ANNE THORNE
HALL ENVIRONMENTAL
4901 HAWKINS NE

ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 02JUL20
ACTWGT: 16.00 LB
CAD: 1717027/INET4220

BILL SENDER

TO SAMPLE RECEIVING
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

BOTHELL WA 98011
(206) 632-6206
INV:
PO: REF:
DEPT:

56BJ2/17B7/FE4A

FedEx Express

FRI - 03 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7708 6460 8326

98011
WA-US SEA

XH PAEA

7/2/2020

Sample Receipt Checklist:

Container Type:

- [x] Cooler
- [ ] Cardboard box
- [ ] Styrofoam cooler
- [ ] Other (Specify):

- [x] Custody Seal Present?
  Custody Seal Intact? (Y) N
- [x] Chain of Custody Present?

Coolant Type: IR#: 19

- [ ] None
- [x] Blue Ice: 1.9 °C
- [ ] Ice: °C
- [ ] Dry Ice: °C
- [ ] Temp Blank: °C

Corrected Temp: 0.9 °C

Bottle Type:

- [x] Client Provided
- [ ] Other :
  Size / Type:
  Lot:
  Preservation:
  Preservative Lot:
- [ ] Other :
  Size / Type:
  Lot:
  Preservation:
  Preservative Lot:
- [ ] Other :
  Size / Type:
  Lot:
  Preservation:
  Preservative Lot:

Initial/date: SKS 7/3/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Intel Corporation Work Order Number: 2007079 RcptNo: 1

Received By: **Leah Baca** 6/30/2020 2:25:00 PM Leah SBaca
Completed By: **John Caldwell** 7/1/2020 4:03:13 PM John Caldwell
Reviewed By: JD 7/2/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐ SPA 7.2.20
8. Was preservative added to bottles? Yes ☑ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 4 (<2 or >12 unless noted)
Adjusted? ~~NO~~ YES
SPA 7.2.20
Checked by: SPA 7.2.20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date ____
By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: ____
Client Instructions: ____

16. Additional remarks: ~0.4 ml HNO_3 added to 004A for pH<2 for TKN analysis.
17. **Cooler Information** SPA 7.2.20

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.6	Good				

Chain-of-Custody Record

Client: INTEL

Mailing Address:

Phone #: 972-658-1758

email or Fax#: amyoreed@intel.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: CERIA STUDY

Project #:

Project Manager: AMY REED

Sampler: K. URBAN

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 9.6 - 0 = 9.6 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2007074	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CERIA
6/7/20	0900	W	JUNE CERIA		HNO_3	-001											X
6/14/20	0900	W	JUNE-CERIA		HNO_3	-002											X
6/21/20	0900	W	JUNE-CERIA		HNO_3	-003											X
6/28/20	0900	W	JUNE CERIA		HNO_3	-004											X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/30/20	0930	KEN URBAN		CDO	6/30	1425
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Please send report copy to tpeacock@abcwua.org. Please send samples with other ceria samples collected from ABCWUA WQL on 7/1.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 27, 2019

Carrie Weitz

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX

RE: Cerium OrderNo.: 1908441

Dear Carrie Weitz:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/7/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

September 26, 2019

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On August 15, 2019, Brooks Applied Labs (BAL) received four (4) samples for cerium (Ce) analysis. The samples were logged-in for the contracted analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

All aqueous samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids.

Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lauren Blaiwes

Lauren Blaiwes
Project Manager
Lauren@brooksapplied.com

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations /certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	standard reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch.
	Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Sample Information

Sample	Alias	Lab ID	Report Matrix	Type	Sampled	Received
1908441-001A	Cerium- July	1933065-01	AQ	Sample	07/01/2019	08/15/2019
1908441-002A	Cerium- July	1933065-02	AQ	Sample	07/09/2019	08/15/2019
1908441-003A	Cerium- July	1933065-03	AQ	Sample	07/16/2019	08/15/2019
1908441-004A	Cerium- July	1933065-04	AQ	Sample	07/24/2019	08/15/2019

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	08/28/2019	09/06/2019	B192347	1901141
Ce	Water	EPA 1638 Mod	08/28/2019	09/13/2019	B192347	1901161

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
1908441-001A, Cerium- July										
1933065-01	Ce	AQ	TR	38.3		2.45	20.0	µg/L	B192347	1901161
1908441-002A, Cerium- July										
1933065-02	Ce	AQ	TR	253		0.122	1.00	µg/L	B192347	1901141
1908441-003A, Cerium- July										
1933065-03	Ce	AQ	TR	40.8		0.122	1.00	µg/L	B192347	1901141
1908441-004A, Cerium- July										
1933065-04	Ce	AQ	TR	19.4		0.122	1.00	µg/L	B192347	1901141

Accuracy & Precision Summary

Batch: B192347
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B192347-BS1	**Blank Spike, (1928035)**						
	Ce		24000	24600	µg/L	103% 75-125	
B192347-DUP4	**Duplicate, (1933065-01)**						
	Ce	38.30		34.58	µg/L		10% 20
B192347-MS4	**Matrix Spike, (1933065-01)**						
	Ce	38.30	24000	25270	µg/L	105% 75-125	
B192347-MSD4	**Matrix Spike Duplicate, (1933065-01)**						
	Ce	38.30	24000	24320	µg/L	101% 75-125	4% 20

Method Blanks & Reporting Limits

Batch: B192347
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B192347-BLK1	0.001	µg/L
B192347-BLK2	0.002	µg/L
B192347-BLK3	0.006	µg/L
B192347-BLK4	0.001	µg/L

Average: 0.003
Limit: 0.080

MDL: 0.010
MRL: 0.080

Sample Containers

Lab ID: 1933065-01
Sample: 1908441-001A
Report Matrix: AQ
Sample Type: Sample
Collected: 07/01/2019
Received: 08/15/2019

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	1 mL HNO3 (Client)	n/a	0	Cooler 1 - 1933065

Lab ID: 1933065-02
Sample: 1908441-002A
Report Matrix: AQ
Sample Type: Sample
Collected: 07/09/2019
Received: 08/15/2019

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	1 mL HNO3 (Client)	n/a	0	Cooler 1 - 1933065

Lab ID: 1933065-03
Sample: 1908441-003A
Report Matrix: AQ
Sample Type: Sample
Collected: 07/16/2019
Received: 08/15/2019

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	1 mL HNO3 (Client)	n/a	0	Cooler 1 - 1933065

Lab ID: 1933065-04
Sample: 1908441-004A
Report Matrix: AQ
Sample Type: Sample
Collected: 07/24/2019
Received: 08/15/2019

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	1 mL HNO3 (Client)	n/a	0	Cooler 1 - 1933065

Shipping Containers

Cooler 1 - 1933065

Received: August 15, 2019 9:50
Tracking No: 775976497180 via FedEx
Coolant Type: Blue Ice
Temperature: 3.3 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR # 19

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: www.hallenvironmental.com

BAL Report 1933065

SUB CONTRACTOR: Brooks Applied Lab	COMPANY: Brooks Applied Lab	PHONE: (206) 632-6206	FAX:
ADDRESS: 18804 Northcreek Parkway, Ste 100		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: Bothell, WA 98011			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	1908441-001A	Cerium- July	250HDPEHNO3	Aqueous	7/1/2019 10:00:00 AM	1	Cerium by 1638
2	1908441-002A	Cerium- July	250HDPEHNO3	Aqueous	7/9/2019 9:00:00 AM	1	Cerium by 1638
3	1908441-003A	Cerium- July	250HDPEHNO3	Aqueous	7/16/2019 10:00:00 AM	1	Cerium by 1638
4	1908441-004A	Cerium- July	250HDPEHNO3	Aqueous	7/24/2019 9:00:00 AM	1	Cerium by 1638

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 8/8/2019	Time: 10:38 AM	Received By:	Date: 8/8/19	Time: 9:50
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard X RUSH Next BD 2nd BD 3rd BD

REPORT TRANSMITTAL DESIRED

HARDCOPY (extra cost) FAX EMAIL ONLINE

FOR LAB USE ONLY

Temp of samples: C Attempt to Cool ?

Comments:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Intel Corp | Work Order Number: 1908441 | RcptNo: 1

Received By: **Desiree Dominguez** 8/7/2019 1:42:00 PM

Completed By: **Yazmine Garduno** 8/8/2019 10:29:30 AM

Reviewed By: JD 8/8/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Not required Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 4 (<2 or >12 unless noted)

Adjusted? NO

Checked by: YG 8/8/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: ____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.4	Good				

Chain-of-Custody Record

Client: INTEL

Mailing Address:

Phone #: cell 972-658-1758

email or Fax#: amy.reed@intel.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☑ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Cerium

Project #:

Project Manager: Carrie Wells

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 21.3+0.1=21.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1908441	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Cerium Kanu
7/1/19	10Am	W	Cerium - July		HNO_3	-001											X
7/9/19	9Am	W	Cerium - July		HNO_3	-002											X
7/14/19	10Am	W	Cerium - July		HNO_3	-003											X
7/24/19	9Am	W	Cerium - July		HNO_3	-004											X

Date	Time	Relinquished by	Received by	Via	Date	Time
~~8/7/2019~~ AR 8/7/2019	0700	~~Ken Uhlan~~ AR Amy Reed		courier	8/7/19	13:42

Remarks: Please send results to ABCWUA as well. shardeman@abcwua.org, rpelutt@abcwua.org, tpeacock@abcwua.org, ~~Intel~~ amy.reed@intel.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 04, 2020

Amy Reed

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Ceria Project OrderNo.: 2008254

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/5/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

September 3, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On August 7, 2020, Brooks Applied Labs (BAL) received one (1) aqueous sample. The sample was logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The sample was received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS
All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amanda Royal
Senior Project Manager
Brooks Applied Labs
Amanda@brooksapplied.com

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received
BAL	Brooks Applied Labs
BLK	method blank
BS	blank spike
CAL	calibration standard
CCB	continuing calibration blank
CCV	continuing calibration verification
COC	chain of custody record
D	dissolved fraction
DUP	duplicate
IBL	instrument blank
ICV	initial calibration verification
MDL	method detection limit
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
ND	non-detect
NR	non-reportable
N/C	not calculated
PS	post preparation spike
REC	percent recovery
RPD	relative percent difference
SCV	secondary calibration verification
SOP	standard operating procedure
SRM	reference material
T	total fraction
TR	total recoverable fraction

Definition of Data Qualifiers

(Effective 3/23/2020)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Please see narrative for explanation.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
M Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI

Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 27, 2020; Valid to: June 30, 2021
Certificate Number: E87982-35

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness

Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: January 10, 2020; Valid to: March 30, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod BAL-5000	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn	Ag, As, Cd, Cr, Cu, Pb, Ni, Se, Zn
EPA 1640 Mod	Non-Potable Waters	Ag, As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Tl, V, Zn	Not Accredited
EPA 1631E Mod BAL-3100 (waters) BAL-3101 (solids)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters Solids/Chemicals	Inorganic Arsenic, As(III)	Inorganic Arsenic. As(III) for waters only.
	Biological/Food	Inorganic Arsenic	Inorganic Arsenic (excluding Food)
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4200	Non-Potable Waters	Se(IV), Se(VI), SeCN	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2
(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1
(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2008254-001A	2032047-01	Water	Sample	08/02/2020	08/07/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	08/14/2020	08/15/2020	B202221	2001027

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2008254-001A										
2032047-01	Ce	Water	TR	366		0.008	0.080	µg/L	B202221	2001027

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Accuracy & Precision Summary

Batch: B202221
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B202221-BS1	**Blank Spike, (1940023)**						
	Ce		400.0	391.2	µg/L	98% 75-125	
B202221-SRM1	**Reference Material (2034013, T221)**						
	Ce		0.8370	0.833	µg/L	100% 0-200	
B202221-DUP1	**Duplicate, (2032046-01)**						
	Ce	211.6		174.5	µg/L		19% 20
B202221-MS1	**Matrix Spike, (2032046-01)**						
	Ce	211.6	400.0	630.3	µg/L	105% 75-125	
B202221-MSD1	**Matrix Spike Duplicate, (2032046-01)**						
	Ce	211.6	400.0	657.2	µg/L	111% 75-125	4% 20

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Method Blanks & Reporting Limits

Batch: B202221
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B202221-BLK1	0.0001	µg/L
B202221-BLK2	0.0003	µg/L
B202221-BLK3	-0.0005	µg/L
B202221-BLK4	0.0006	µg/L

Average: 0.000
Limit: 0.080

MDL: 0.008
MRL: 0.080

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2032047-01
Sample: 2008254-001A

Report Matrix: Water
Sample Type: Sample

Collected: 08/02/2020
Received: 08/07/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided						Cooler - 2032047

Shipping Containers

Cooler - 2032047

Received: August 7, 2020 12:01
Tracking No: 7711 9865 5783 via FedEx
Coolant Type: Blue Ice
Temperature: 2.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR# 21

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2032047	**Project Manager:** Amanda
Labeled: SKS 8/7/20	
pH checked: SKS 8/7/20	
Preserved: N/A **Time:**	
Syringe filtered: N/A **Time:**	
Poured off/split: N/A	
Stored: SKS 8/7/20	
Other (specify: _____): N/A	
Non-conformance notes: N/A	
Initial/date: SKS 8/7/20	

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID:ABQA (505) 345-3975
ANNE THORNE
HALL ENVIRONMENTAL
4901 HAWKINS NE

ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 06AUG20
ACTWGT: 21.00 LB
CAD: 1717027/INET4280

BILL SENDER

TO SAMPLE RECEIVING
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

BOTHELL WA 98011
(206) 632-6206 REF:
INV:
PO: DEPT:

56BJ2/7709/8766

FedEx Express

FRI - 07 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7711 9865 5783

98011
WA-US SEA

XH PAEA

8/6/2020

Sample Receipt Checklist

Container Type:

- [x] Cooler
- [ ] Cardboard box
- [ ] Styrofoam cooler
- [ ] Other (Specify):

- [x] Custody Seal Present?
  Custody Seal Intact? (Y) N
- [x] Chain of Custody Present?

Coolant and Temperature

Coolant Type IR#: 21

- [ ] None
- [x] Blue Ice: 2.4 °C
- [ ] Ice: °C
- [ ] Dry Ice: °C
- [ ] Temp Blank: °C

Corrected Temp: N/A °C

Coolant Note:

Bottle Type:

- [x] Client Provided HNO3 pres
- [ ] Other :
  Size / Type:
  Lot:
  Preservation:
  Preservative Lot:
- [ ] Other :
  Size / Type:
  Lot:
  Preservation:
  Preservative Lot:
- [ ] Other :
  Size / Type:
  Lot:
  Preservation:
  Preservative Lot:

All information accurate

Initial/date: SKS 8/7/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: clients.hallenvironmental.com

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

BAL Report 2032047

SUB CONTRATOR: **Brooks Applied Labs**	COMPANY: **Brooks Applied Labs**	PHONE: **(206) 632-6206**	FAX: **(206) 632-6017**
ADDRESS: **18804 North Creek Pkwy, Ste 100**		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: **Bothell, WA 98011**			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2008254-001A	Aug-Cer	125HDPHNO 3	Aqueous	8/2/2020 9:00:00 AM	1	CERIUM

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: Erin	Date: 8/6/2020	Time: 1:10 PM	Received By: Spencer Shibuya	Date: 8/7/20	Time: 9:51
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Intel Corporation** Work Order Number: **2008254** RcptNo: 1

Received By: **Scott Anderson** **8/5/2020 3:40:00 PM**

Completed By: **Leah Baca** **8/6/2020 9:26:35 AM** Leah S Baca

Reviewed By: MG 08/06/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☑ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Not required Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Not required Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)
Adjusted? no
Checked by: EM 8/6/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.3	Good				

Chain-of-Custody Record

Client: INTEL

Mailing Address:

Phone #: 972 658 1758

email or Fax#: AmyReed@intel.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: CERIA PROJECT

Project #:

Project Manager: AMY REED

Sampler: K URBAN

On Ice: ☐ Yes ☒ No

# of Coolers: 1

Cooler Temp(including CF): 20.3-0=20.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2008254	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CERIA
8/4/20	0900	W	AUG-CER		HNO3	-001											X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/4/20	0930	KEN URBAN	SPA	CDO	8.5.20	15:40
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:
Please send final report also to tpeacock@abcwua.org.
Send water samples with Intel July samples.
July samples from water quality lab picked up on 8/5/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

October 12, 2020

Amy Reed

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Monthly Ceria OrderNo.: 2009588

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/9/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

October 10, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On September 11, 2020, Brooks Applied Labs (BAL) received one (1) aqueous sample. The sample was logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The sample was received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS
All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amanda Royal
Senior Project Manager
Brooks Applied Labs
Amanda@brooksapplied.com

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received
BAL	Brooks Applied Labs
BLK	method blank
BS	blank spike
CAL	calibration standard
CCB	continuing calibration blank
CCV	continuing calibration verification
COC	chain of custody record
D	dissolved fraction
DUP	duplicate
IBL	instrument blank
ICV	initial calibration verification
MDL	method detection limit
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
ND	non-detect
NR	non-reportable
N/C	not calculated
PS	post preparation spike
REC	percent recovery
RPD	relative percent difference
SCV	secondary calibration verification
SOP	standard operating procedure
SRM	reference material
T	total fraction
TR	total recoverable fraction

Definition of Data Qualifiers

(Effective 3/23/2020)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI

Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 27, 2020; Valid to: June 30, 2021
Certificate Number: E87982-35

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness

Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: January 10, 2020; Valid to: March 30, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod BAL-5000	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn	Ag, As, Cd, Cr, Cu, Pb, Ni, Se, Zn
EPA 1640 Mod	Non-Potable Waters	Ag, As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Tl, V, Zn	Not Accredited
EPA 1631E Mod BAL-3100 (waters) BAL-3101 (solids)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters Solids/Chemicals	Inorganic Arsenic, As(III)	Inorganic Arsenic. As(III) for waters only.
	Biological/Food	Inorganic Arsenic	Inorganic Arsenic (excluding Food)
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4200	Non-Potable Waters	Se(IV), Se(VI), SeCN	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2
(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1
(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
Sep-Ceria	2037057-01	Water	Sample	09/07/2020	09/11/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	10/06/2020	10/06/2020	B202546	2001209

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Sep-Ceria										
2037057-01	Ce	Water	TR	430		0.008	0.080	µg/L	B202546	2001209

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Accuracy & Precision Summary

Batch: B202546
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B202546-BS1	**Blank Spike, (1940023)**						
	Ce		400.0	404.3	µg/L	101% 75-125	
B202546-SRM1	**Reference Material (2034013, T221)**						
	Ce		0.8370	0.860	µg/L	103% 75-125	
B202546-DUP1	**Duplicate, (2038013-02)**						
	Ce	0.175		0.187	µg/L		7% 20
B202546-MS1	**Matrix Spike, (2038013-02)**						
	Ce	0.175	400.0	429.2	µg/L	107% 75-125	
B202546-MSD1	**Matrix Spike Duplicate, (2038013-02)**						
	Ce	0.175	400.0	429.3	µg/L	107% 75-125	0.02% 20

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Method Blanks & Reporting Limits

Batch: B202546
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B202546-BLK1	0.004	µg/L
B202546-BLK2	0.002	µg/L
B202546-BLK3	0.003	µg/L
B202546-BLK4	0.003	µg/L

Average: 0.003
Limit: 0.080

MDL: 0.008
MRL: 0.080

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2037057-01
Sample: Sep-Ceria

Report Matrix: Water
Sample Type: Sample

Collected: 09/07/2020
Received: 09/11/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	1.0 mL HNO3 (Client)	n/a	<2	Cooler - 2037057

Shipping Containers

Cooler - 2037057

Received: September 11, 2020 10:01
Tracking No: 7714 9651 5885 via FedEx
Coolant Type: None
Temperature: 1.0 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #21

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2037057	**Project Manager:**
Labeled: DJR 9/11/20	
pH checked: DJR 9/11/20	
Preserved: **Time:** N/A	
Syringe filtered: **Time:**	
Poured off/split:	
Stored: DJR 9/11/20	
Other (specify: _____): N/A	
Non-conformance notes: N/A	
Initial/date: DJR 9/11/20	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: clients.hallenvironmental.com

BAL Report 2037057

SUB CONTRATOR: **Brooks Applied Labs**	COMPANY: **Brooks Applied Labs**		PHONE: **(206) 632-6206**	FAX: **(206) 632-6017**	
ADDRESS: **18804 North Creek Pkwy, Ste 100**			ACCOUNT #:	EMAIL:	
CITY, STATE, ZIP: **Bothell, WA 98011**					

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2009588-001A	Sep-Ceria	250HDPEHN 03	Aqueous	9/7/2020 9:00:00 AM	1	CERIUM

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: EM	Date: 9/10/2020	Time: 11:47 AM	Received By: [signature]	Date: 9/11/20	Time: 1021
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☒ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

ORIGIN ID:ABQA (505) 345-3975
ANNE THORNE
HALL ENVIRONMENTAL
4901 HAWKINS NE

ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 10SEP20
ACTWGT: 26.00 LB
CAD: 1717027/INET4280

BILL SENDER

TO SAMPLE RECEIVING
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

BOTHELL WA 98011
(206) 632-6206
INV:
PO
REF
DEPT

56BJ6/1545/B766

FedEx Express

E

J202020071481uv

TRK# 0201 7714 9651 5885

FRI - 11 SEP 10:30A
PRIORITY OVERNIGHT

XH PAEA

98011
WA-US SEA

Sample Receipt Checklist:

Container Type:

- [x] Cooler
- [ ] Cardboard box
- [ ] Styrofoam cooler
- [ ] Other (Specify):

- [x] Custody Seal Present?
- Custody Seal Intact? (Y) / N
- [x] Chain of Custody Present? DJR 9/11/20

Coolant and Temperature

Coolant Type	IR#: 21
[ ] None	
[x] Blue Ice:	1.0 °C
[ ] Ice:	°C
[ ] Dry Ice:	°C
[ ] Temp Blank:	°C
Corrected Temp:	°C

Coolant Note:

Bottle Type:

- [x] Client Provided 250 mL HNO3 (Client)
- [ ] Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:
- [ ] Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:
- [ ] Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:

All information accurate
Initial/date: DJR 9/11/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Intel Corporation** Work Order Number: **2009588** RcptNo: **1**

Received By: **Juan Rojas** **9/9/2020 2:48:00 PM**

Completed By: **Emily Mocho** **9/10/2020 11:51:03 AM**

Reviewed By: SPA 9.10.20

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐ Not required
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)

Adjusted? no

Checked by: CM 9/10/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	12.4	Good	Not Present			

Chain-of-Custody Record

Client: INTEL

Mailing Address:

Phone #: 972-658-1758

email or Fax#: amy.reed@intel.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ **Rush**

Project Name: MONTHLY CERIA

Project #:

Project Manager: AMY REED

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 12.4-0=12.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2009588	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CERIUM
9/7/20	0900	W	SEP-CER		HNO_3	001											X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/8/20	0930	KEN URBAN		CDO	9/9/20	14:48
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:
Please submit samples with cerium
samples from ABCWUA WQL.
Please copy tpeacock@abcwua.org
on cerium final report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

November 10, 2020

Amy Reed

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: October Cerium OrderNo.: 2010406

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/7/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 10, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On October 9, 2020, Brooks Applied Labs (BAL) received one (1) aqueous sample. The sample was logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The sample was received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS
All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

The duplicate (DUP) B202929-DUP2 performed on 2044057-01 had a relative percent difference (RPD) above the acceptance limit (43%). The DUP result and the native result met secondary criteria, being within 5x the method reporting limit (MRL) and within one MRL of each other, and no further action was required.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amanda Royal
Senior Project Manager
Brooks Applied Labs

Don Moran
Project Coordinator
Brooks Applied Labs

Amanda@brooksapplied.com

Don@brooksapplied.com

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received
BAL	Brooks Applied Labs
BLK	method blank
BS	blank spike
CAL	calibration standard
CCB	continuing calibration blank
CCV	continuing calibration verification
COC	chain of custody record
D	dissolved fraction
DUP	duplicate
IBL	instrument blank
ICV	initial calibration verification
MDL	method detection limit
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
ND	non-detect
NR	non-reportable
N/C	not calculated
PS	post preparation spike
REC	percent recovery
RPD	relative percent difference
SCV	secondary calibration verification
SOP	standard operating procedure
SRM	reference material
T	total fraction
TR	total recoverable fraction

Definition of Data Qualifiers

(Effective 3/23/2020)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI

Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 27, 2020; Valid to: June 30, 2021
Certificate Number: E87982-35

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness

Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: January 10, 2020; Valid to: March 30, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod BAL-5000	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn	Ag, As, Cd, Cr, Cu, Pb, Ni, Se, Zn
EPA 1640 Mod	Non-Potable Waters	Ag, As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Tl, V, Zn	Not Accredited
EPA 1631E Mod BAL-3100 (waters) BAL-3101 (solids)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters Solids/Chemicals	Inorganic Arsenic, As(III)	Inorganic Arsenic. As(III) for waters only.
	Biological/Food	Inorganic Arsenic	Inorganic Arsenic (excluding Food)
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4200	Non-Potable Waters	Se(IV), Se(VI), SeCN	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2
(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1
(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2010406-001A	2041059-01	Water	Sample	10/05/2020	10/09/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	11/02/2020	11/02/2020	B202929	2001308

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2010406-001A										
2041059-01	Ce	Water	D	157		0.004	0.044	µg/L	B202929	2001308

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Accuracy & Precision Summary

Batch: B202929
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B202929-BS1	**Blank Spike, (2035012)**						
	Ce		22.22	19.53	µg/L	88% 75-125	
B202929-SRM1	**Reference Material (2034013, T221)**						
	Ce		0.8370	0.792	µg/L	95% 75-125	
B202929-DUP2	**Duplicate, (2044057-01)**						
	Ce	0.051		0.080	µg/L		*43%* 20
B202929-MS2	**Matrix Spike, (2044057-01)**						
	Ce	0.051	22.45	20.62	µg/L	92% 75-125	
B202929-MSD2	**Matrix Spike Duplicate, (2044057-01)**						
	Ce	0.051	22.45	21.30	µg/L	95% 75-125	3% 20

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Method Blanks & Reporting Limits

Batch: B202929
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B202929-BLK1	0.0001	µg/L
B202929-BLK2	0.0001	µg/L
B202929-BLK3	-0.0001	µg/L
B202929-BLK4	-0.0001	µg/L

Average: 0.000
Limit: 0.044

MDL: 0.004
MRL: 0.044

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2041059-01
Sample: 2010406-001A

Report Matrix: Water
Sample Type: Sample

Collected: 10/05/2020
Received: 10/09/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle HDPE ICP-W	250 mL	n/a	Unk HNO3 (Client)	n/a	<2	Cooler - 2041059

Shipping Containers

Cooler - 2041059

Received: October 9, 2020 10:13
Tracking No: 7717 4989 9455 via FedEx
Coolant Type: Blue Ice
Temperature: 4.7 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #21

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2041059	**Project Manager:** Amanda
Labeled: DSR 10/9/20	
pH checked: DSR 10/9/20	
Preserved: N/A **Time:**	
Syringe filtered: N/A **Time:**	
Poured off/split: N/A	
Stored: DSR 10/9/20	
Other (specify: _____): N/A	
Non-conformance notes: N/A	
Initial/date: DSR 10/9/20	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: clients.hallenvironmental.com

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

BAL Report 2041059

SUB CONTRATOR:	Brooks Applied Labs	COMPANY:	Brooks Applied Labs	PHONE: (206) 632-6206	FAX: (206) 632-6017
ADDRESS:	18804 North Creek Pkwy, Ste 100			ACCOUNT #:	EMAIL:
CITY, STATE, ZIP:	Bothell, WA 98011				

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2010406-001A	Oct-Cer	250HDPEHN 03	Aqueous	10/5/2020 9:00:00 AM	1	CERIUM

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 10/7/2020	Time: 3:52 PM	Received By: BAL	Date: 10/9/20	Time: 1013
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☑ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

ORIGIN ID:ABQA (505) 345-3975
ANNE THORNE
HALL ENVIRONMENTAL
4901 HAWKINS NE

ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 08OCT20
ACTWGT: 9.00 LB
CAD: 1717027/INET4280

BILL SENDER

TO SAMPLE RECEIVING
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

BOTHELL WA 98011
(206) 632-6206 REF:
INV:
PO: DEPT:

56BJ2/A27E/B766

FedEx Express

E

FRI - 09 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7717 4989 9455

XH PAEA

98011
WA-US SEA

Sample Receipt Checklist:

Container Type:

- [x] Cooler
- [ ] Cardboard box
- [ ] Styrofoam cooler
- [ ] Other (Specify):

- [x] Custody Seal Present?
- Custody Seal Intact? (Y)/ N
- [x] Chain of Custody Present?

Coolant and Temperature

Coolant Type IR#: 21

- [ ] None
- [x] Blue Ice: 4.7 °C
- [ ] Ice: °C
- [ ] Dry Ice: °C
- [ ] Temp Blank: °C

Corrected Temp: °C

Coolant Note:

Bottle Type:

- [x] Client Provided 250mL HDPE
- [ ] Other : Cerium
  - Size / Type:
  - Lot: N/A
  - Preservation: UNK Client HNO
  - Preservative Lot: N/A
- [ ] Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:
- [ ] Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:

All information accurate

Initial/date: ADN 10/9/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Intel Corporation** Work Order Number: **2010406** RcptNo: 1

Received By: **Desiree Dominguez** **10/7/2020 2:45:00 PM** DD

Completed By: **Cheyenne Cason** **10/7/2020 3:55:35 PM**

Reviewed By: CM 10/7/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Not required Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)
Adjusted? N/O
Checked by: JR 10/7/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	16.9	Good				

Chain-of-Custody Record

Client: INTEL

Mailing Address:

Phone #:

email or Fax#: amy.reed@intel.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: OCTOBER CERIA

Project #:

Project Manager: AMY REED

Sampler: K. URBAN

On Ice: ☐ Yes ☒ No

# of Coolers: 1

Cooler Temp(including CF): 16.8+0.1=16.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2010406	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	X CERIA
10/5/20	0900	W	OCT-CER		HNO3	CER											X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/7/20	0930	KEN URBAN		CDO	10/7/20	14:45
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Please send sample with water samples collected from Water Quality Lab (ABCWUA) on 10-7-20. Please ALSO send final report to Tpeacock@abcwua.org

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

December 07, 2020

Amy Reed

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Ceria Project OrderNo.: 2011247

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 7, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On November 6, 2020, Brooks Applied Labs (BAL) received one (1) aqueous sample. The sample was logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The sample was received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS
All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Client Services Manager
Brooks Applied Labs
Lydia@brooksapplied.com

Don Moran

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 3/23/2020)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Please see narrative for explanation.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
M Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI

Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 27, 2020; Valid to: June 30, 2021
Certificate Number: E87982-35

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness

Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: November 20, 2020; Valid to: March 20, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
BAL-5000	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn Hg (Biological Only)	Not Accredited
EPA 1640 Mod	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn Cr, Co, Se, Tl, V (ISO Only)	Not Accredited
EPA 1631E Mod BAL-3100 (waters)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters	Inorganic Arsenic, As(III) (ISO Only)	Not Accredited
	Biological/Food Solids/Chemicals	Inorganic Arsenic (ISO Only)	Not Accredited
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs (ISO Only)	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs (ISO Only)	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II) (ISO Only)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2

(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1

(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2011247-001A	2045055-01	Water	Sample	11/04/2020	11/06/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	11/10/2020	11/10/2020	B203074	2001350

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2011247-001A										
2045055-01	Ce	Water	TR	227		0.004	0.044	µg/L	B203074	2001350

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Accuracy & Precision Summary

Batch: B203074
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B203074-BS1	**Blank Spike, (2035012)**						
	Ce		22.22	22.65	µg/L	102% 75-125	
B203074-SRM1	**Reference Material (2034013, T221)**						
	Ce		0.8370	0.908	µg/L	108% 75-125	
B203074-DUP1	**Duplicate, (2045053-01)**						
	Ce	0.094		0.090	µg/L		4% 20
B203074-MS1	**Matrix Spike, (2045053-01)**						
	Ce	0.094	22.45	24.42	µg/L	108% 75-125	
B203074-MSD1	**Matrix Spike Duplicate, (2045053-01)**						
	Ce	0.094	22.45	24.31	µg/L	108% 75-125	0.5% 20

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Method Blanks & Reporting Limits

Batch: B203074
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B203074-BLK1	-0.0007	µg/L
B203074-BLK2	-0.0002	µg/L
B203074-BLK3	0.0005	µg/L
B203074-BLK4	-0.0003	µg/L

Average: 0.000
Limit: 0.044

MDL: 0.004
MRL: 0.044

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2045055-01
Sample: 2011247-001A

Report Matrix: Water
Sample Type: Sample

Collected: 11/04/2020
Received: 11/06/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	na	na	unk. HNO3 (client)	na	<2	Cooler - 2045055

Shipping Containers

Cooler - 2045055

Received: November 6, 2020 10:32
Tracking No: 7720 0694 8922 via FedEx
Coolant Type: Blue Ice
Temperature: 10.5 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR# 21

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2045055	**Project Manager:** Amanda
Labeled: SKS 11/6/20	
pH checked: SKS 11/6/20	
Preserved: N/A **Time:**	
Syringe filtered: N/A **Time:**	
Poured off/split: N/A	
Stored: SKS 11/6/20	
Other (specify: _____): N/A	
Non-conformance notes: N/A	
Initial/date: SKS 11/6/20	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: clients.hallenvironmental.com

BAL Report 2045055

SUB CONTRATOR: **Brooks Applied Labs**	COMPANY: **Brooks Applied Labs**	PHONE: **(206) 632-6206**	FAX: **(206) 632-6017**
ADDRESS: **18804 North Creek Pkwy, Ste 100**		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: **Bothell, WA 98011**			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2011247-001A	nov Cer	250HDPEHN 03		11/4/2020 9:00:00 AM	1	Cerium

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 11/4/2020	Time: 3:43 PM	Received By: Spencer Gidney	Date: 11/6/20	Time: 10:32
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☒ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

875-5264

ORIGIN ID:ABQA (505) 345-3975
ANNE THORNE
HALL ENVIRONMENTAL
4901 HAWKINS NE

ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 05NOV20
ACTWGT: 6.00 LB
CAD: 1717027/INET4280

BILL SENDER

TO SAMPLE RECEIVING
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

BOTHELL WA 98011
(206) 632-6206 REF:
INV:
PO: DEPT:

FedEx Express

E

FRI - 06 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7720 0694 8922

98011
WA-US SEA

XH PAEA

FedEx Ship Manager - Print Your Label(s)

11/5/2020

Sample Receipt Checklist:

Container Type:

- ☑ Cooler
- ☐ Cardboard box
- ☐ Styrofoam cooler
- ☐ Other (Specify):

- ☑ Custody Seal Present?
- Custody Seal Intact? (Y) / N
- ☑ Chain of Custody Present?

Coolant and Temperature

Coolant Type	IR#: 21
☐ None	
☑ Blue Ice:	10.5 °C
☐ Ice:	°C
☐ Dry Ice:	°C
☐ Temp Blank:	°C
Corrected Temp:	°C

Coolant Note:

Bottle Type:

- ☑ Client Provided
- ☐ Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:
- ☐ Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:
- ☐ Other :
  - Size / Type:
  - Lot:
  - Preservation:
  - Preservative Lot:

All information accurate

Initial/date: SKS 11/6/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Intel Corporation** Work Order Number: **2011247** RcptNo: **1**

Received By: **Cheyenne Cason** **11/4/2020 1:51:00 PM**

Completed By: **Cheyenne Cason** **11/4/2020 3:38:13 PM**

Reviewed By: JR 11/5/20

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)

Adjusted? no

Checked by: SGL 11/5/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good				

Chain-of-Custody Record

Client: INTEL CORP

Mailing Address:

Phone #: 972 658 1758

email or Fax#: amy.reed@intel.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☐ **Rush**

Project Name: CERIA PROJECT

Project #:

Project Manager: AMY REED

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.8 +0 = 4.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2011247	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CERIA
11/2/20	0900	W	NOV-CER		HNO3	001											X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/4/20	0930	KEN URBAN		COURIER	11/4/20	1351
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Please send report copy to tpeacock@abcwua.org. Please submit samples to sub-lab with ceria samples from Water Quality Lab (ABCWUA) ~~collected~~ sent to Hall on 11/4/20.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

January 19, 2021

Amy Reed

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Cerium Sampling OrderNo.: 2012750

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/15/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

January 18, 2021

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On December 17, 2020, Brooks Applied Labs (BAL) received one (1) aqueous sample. The sample was logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The sample was received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS
All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The duplicate (DUP) B204127-DUP2 performed on *Cerium Outfall Daily comp* (2012253-01) had a relative percent difference (RPD) above the acceptance limit (20%). The result for *Cerium Outfall Daily comp* (2012253-01) was qualified **M** for duplicate imprecision.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

ARoyal

Don Moran

Amanda Royal
Senior Project Manager
Brooks Applied Labs
Amanda@brooksapplied.com

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received
BAL	Brooks Applied Labs
BLK	method blank
BS	blank spike
CAL	calibration standard
CCB	continuing calibration blank
CCV	continuing calibration verification
COC	chain of custody record
D	dissolved fraction
DUP	duplicate
IBL	instrument blank
ICV	initial calibration verification
MDL	method detection limit
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
ND	non-detect
NR	non-reportable
N/C	not calculated
PS	post preparation spike
REC	percent recovery
RPD	relative percent difference
SCV	secondary calibration verification
SOP	standard operating procedure
SRM	reference material
T	total fraction
TR	total recoverable fraction

Definition of Data Qualifiers

(Effective 3/23/2020)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Please see narrative for explanation.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
M Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI

Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 27, 2020; Valid to: June 30, 2021
Certificate Number: E87982-35

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness

Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: November 20, 2020; Valid to: March 20, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
BAL-5000	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn Hg (Biological Only)	Not Accredited
EPA 1640 Mod	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn Cr, Co, Se, Tl, V (ISO Only)	Not Accredited
EPA 1631E Mod BAL-3100 (waters)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters	Inorganic Arsenic, As(III) (ISO Only)	Not Accredited
	Biological/Food Solids/Chemicals	Inorganic Arsenic (ISO Only)	Not Accredited
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs (ISO Only)	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs (ISO Only)	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II) (ISO Only)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2

(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1

(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
Cerium Outfall Daily comp	2012253-01	Water	Sample	12/07/2020	12/17/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	01/04/2021	01/05/2021	B204127	S210003

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Cerium Outfall Daily comp										
2012253-01	Ce	Water	TR	105	M	0.024	0.222	µg/L	B204127	S210003

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Accuracy & Precision Summary

Batch: B204127
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B204127-BS1	**Blank Spike, (2036004)**						
	Ce		222.2	231.9	µg/L	104% 75-125	
B204127-DUP2	**Duplicate, (2012253-01)**						
	Ce	104.8		130.4	µg/L		22% 20
B204127-MS2	**Matrix Spike, (2012253-01)**						
	Ce	104.8	222.2	363.6	µg/L	116% 75-125	
B204127-MSD2	**Matrix Spike Duplicate, (2012253-01)**						
	Ce	104.8	222.2	367.3	µg/L	118% 75-125	1% 20

Method Blanks & Reporting Limits

Batch: B204127
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B204127-BLK1	0.00	µg/L
B204127-BLK2	0.0002	µg/L
B204127-BLK3	0.0002	µg/L
B204127-BLK4	0.0003	µg/L

Average: 0.000
Limit: 0.045

MDL: 0.004
MRL: 0.045

Project ID: HLL-NM1901
PM: Amanda Royal

Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2012253-01
Sample: Cerium Outfall Daily comp

Report Matrix: Water
Sample Type: Sample

Collected: 12/07/2020
Received: 12/17/2020

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250 mL	na	unk. HNO3 (client)	na	<2	Cooler 1 - 2012253

Shipping Containers

Cooler 1 - 2012253

Received: December 17, 2020 10:40
Tracking No: 7723 9655 8951 via FedEx
Coolant Type: None
Temperature: Ambient

Description: Cooler 1
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2012253	**Project Manager:** Amanda
Labeled: JMG 12/17/20	
pH checked: JMG 12/17/20	
Preserved: N/A **Time:**	
Syringe filtered: **Time:** N/A	
Poured off/split: N/A	
Stored: JMG 12/17/20	
Other (specify: _____): N/A	
Non-conformance notes: N/A **Initial/date:** JMG 12/17/20	

Effective 4/3/20

Revision 005

ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107
Website: clients.hallenvironmental.com

CHAIN OF CUSTODY RECORD 1 1

BAL Report 2012253

SUB CONTRATOR: Brooks Applied Labs	COMPANY: Brooks Applied Labs	PHONE: (206) 632-6206	FAX: (206) 632-6017
ADDRESS: 18804 North Creek Pkwy, Ste 100		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: Bothell, WA 98011			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2012750-001A	Cerium Ourtfall Daily comp	250HDPEHN 03	Aqueous	12/16/2020 9:00:00 AM	1	Cerium

SGL 12/15/20

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 12/15/2020	Time: 3:50 PM	Received By:	Date: 12/17/20	Time: 10:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☑ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

Sample Receipt Checklist:

Container Type:

- [x] Cooler
- [ ] Cardboard box
- [ ] Styrofoam cooler
- [ ] Other (Specify):

Custody Seal Present? (Y) / N

Custody Seal Intact? (Y) / N

COC Present? (Y) / N

Coolant and Temperature

Coolant Type IR#:

- [x] None
- [ ] Blue Ice: °C
- [ ] Ice: °C
- [ ] Dry Ice: °C
- [ ] Blank: °C

Corrected Temp: °C

Coolant Note:

Bottle Type:

- [x] Client Provided
- [ ] Other :

Size / Type:

Lot:

Preservation:

Preservative Lot:

- [ ] Other :

Size / Type:

Lot:

Preservation:

Preservative Lot:

- [ ] Other :

Size / Type:

Lot:

Preservation:

Preservative Lot:

All information accurate

Initial/date: JMG 12/17/20

ivery

ORIGIN ID:ABQA (505) 345-3975
ANNE THORNE
HALL ENVIRONMENTAL
4901 HAWKINS NE

ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 16DEC20
ACTWGT: 4.00 LB
CAD: 1717027/INET4280

BILL SENDER

TO SAMPLE RECEIVING
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

BOTHELL WA 98011
(206) 632-6206 REF:
INV:
PO: DEPT:

56BJ2919667766

FedEx Express

FedEx Ship Manager - Print Your Label(s)

THU - 17 DEC 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7723 9655 8951

XH PAEA

98011
WA-US SEA

STODY SEAL

12/16/2020

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Intel Corporation** Work Order Number: **2012750** RcptNo: **1**

Received By: **Cheyenne Cason** **12/15/2020 3:42:00 PM**

Completed By: **Cheyenne Cason** **12/15/2020 3:45:19 PM**

Reviewed By: JR 12/15/20

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Client		

Log In

3. Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
	Approved by client.		
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted? No

Checked by: SGL 12/15/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	14.7	Good				

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: Intel

Mailing Address: 4100 Sara Rd Rio Rancho 87124

Phone #: 794-6841

email or Fax#: amy.reed@intel.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: ↗

Project #: Cerium Sampling

Project Manager: Amy Reed

Sampler:

On Ice: ☐ Yes ☒ No

# of Coolers: 1

Cooler Temp(including CF): 14.5+0.2=14.7 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2012750	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Cerium					
12/7/20	9:00	AQ	Cerium Outfall DAILY comp.	Plastic	HNO_3	001											X					

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/15/20	3:30pm	Amy Reed	[signature]	CAU	12/15/20	1542

Remarks: please send copy of report to tpeacock@ABCWUA.ORG in addition to Amy Reed

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ATTACHMENT C

Semi-Annual Monitoring Analytical Results

H2 2020 Semi-Annual Data for SWSP Endorsement

SWSP Pollutant	Sample Date	Site Outfall Max Discharge Flow Rate (gal/min)	Pollutant Concentration (mg/L)	Pollutant Max Daily Limit (mg/L)	Pollutant Max (lbs/day)
Indium	10/5/2020	1248	**0.11**	0.30	1.65
Indium	10/6/2020	1228	**0.11**	0.30	1.62
Indium	10/7/2020	1416	**0.11**	0.30	1.87
Indium	10/8/2020	1402	**0.11**	0.30	1.85
Gallium	10/5/2020	1248	**0.016**	3.125	0.240
Gallium	10/6/2020	1228	**0.016**	3.125	0.236
Gallium	10/7/2020	1416	**0.016**	3.125	0.272
Gallium	10/8/2020	1402	**0.016**	3.125	0.270
Platinum	10/5/2020	1248	**0.0004**	0.10	0.006
Platinum	10/6/2020	1228	**0.0004**	0.10	0.006
Platinum	10/7/2020	1416	**0.0004**	0.10	0.007
Platinum	10/8/2020	1402	**0.0004**	0.10	0.007

MAX Flow Rate used as requested by ABCWUA. **Bold = ND in Report**

Conversion Factors	
2.20	lb/kg
3.79	L/gal
1000000	mg/kg

The calculated loading rates in the attached spreadsheet are expressed in lb/day and are conservatively calculated based on the following:

i. Upon request from ABCWUA, the maximum daily flow rate (as opposed to the daily average flow rate) for the day that each 24-hour composite sample was collected was used as an input in the calculations.

ii. The detection limit for each respective parameter was used as an input in the calculations in the absence of detected levels of Indium, Gallium, and Platinum.

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 280-141448-1
Client Project/Site: Semi Annual Waste Water

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

Attn: Amy Reed

Donna Rydberg

Authorized for release by:
10/27/2020 10:34:26 AM

Donna Rydberg, Senior Project Manager
(303)736-0192
Donna.Rydberg@Eurofinset.com

Table of Contents

Job ID: 280-141448-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Semi Annual Waste Water

Report Number: 280-141448-1

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 10/10/2020 at 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample H2-100820 (280-141448-4) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/14/2020 and analyzed on 10/19/2020.

Sample H2-100820 (280-141448-4)[40X] 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 H2-100820 (280-141448-4) was analyzed for Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) in accordance with SW846 8015C. The samples were analyzed on 10/13/2020.

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

TOTAL METALS (ICP)
Samples H2-100520 (280-141448-1), H2-100620 (280-141448-2), H2-100720 (280-141448-3) and H2-100820 (280-141448-4) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/21/2020 and analyzed on 10/22/2020.

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

TOTAL METALS (ICPMS)
Samples H2-100520 (280-141448-1), H2-100620 (280-141448-2), H2-100720 (280-141448-3) and H2-100820 (280-141448-4) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 10/15/2020 and analyzed on 10/19/2020.

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

Job ID: 280-141448-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

Subcontract non-Sister

See attached subcontract report.

Definitions/Glossary

Client: Intel Corporation
Job ID: 280-141448-1
Project/Site: Semi Annual Waste Water

Qualifiers

GC/MS Semi VOA

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.

GC VOA

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.

Metals

Qualifier	Qualifier Description
E	Result exceeded calibration range.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Detection Summary

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

Job ID: 280-141448-1

Client Sample ID: H2-100520 — Lab Sample ID: 280-141448-1

No Detections.

Client Sample ID: H2-100620 — Lab Sample ID: 280-141448-2

No Detections.

Client Sample ID: H2-100720 — Lab Sample ID: 280-141448-3

No Detections.

Client Sample ID: H2-100820 — Lab Sample ID: 280-141448-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methyl-2-pyrrilidinone	1100		390	66	ug/L	40		8270C	Total/NA
Ethylene glycol	2.1	J	5.0	1.2	mg/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Intel Corporation
Job ID: 280-141448-1
Project/Site: Semi Annual Waste Water

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 = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL SL = Eurofins 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

Job ID: 280-141448-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-141448-1	H2-100520	Water	10/05/20 09:00	10/10/20 09:20	
280-141448-2	H2-100620	Water	10/06/20 09:00	10/10/20 09:20	
280-141448-3	H2-100720	Water	10/07/20 09:00	10/10/20 09:20	
280-141448-4	H2-100820	Water	10/08/20 09:00	10/10/20 09:20	

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: H2-100820
Date Collected: 10/08/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrilidinone	1100		390	66	ug/L		10/14/20 16:18	10/19/20 14:31	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 120*	*10/14/20 16:18*	*10/19/20 14:31*	*40*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*10/14/20 16:18*	*10/19/20 14:31*	*40*
2,4,6-Tribromophenol (Surr)	*83*		*33 - 120*	*10/14/20 16:18*	*10/19/20 14:31*	*40*
Nitrobenzene-d5 (Surr)	*77*		*33 - 120*	*10/14/20 16:18*	*10/19/20 14:31*	*40*
Phenol-d5 (Surr)	*21*		*10 - 120*	*10/14/20 16:18*	*10/19/20 14:31*	*40*
Terphenyl-d14 (Surr)	*64*		*36 - 122*	*10/14/20 16:18*	*10/19/20 14:31*	*40*

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Client Sample ID: H2-100820
Date Collected: 10/08/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	2.1	J	5.0	1.2	mg/L			10/13/20 22:07	1

Method: 6010C - Metals (ICP)

Client Sample ID: H2-100520
Date Collected: 10/05/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.11	mg/L		10/21/20 08:00	10/22/20 14:19	1

Client Sample ID: H2-100620
Date Collected: 10/06/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.11	mg/L		10/21/20 08:00	10/22/20 14:25	1

Client Sample ID: H2-100720
Date Collected: 10/07/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.11	mg/L		10/21/20 08:00	10/22/20 14:27	1

Client Sample ID: H2-100820
Date Collected: 10/08/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.11	mg/L		10/21/20 08:00	10/22/20 14:29	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: H2-100520
Date Collected: 10/05/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		10/15/20 16:13	10/19/20 22:49	2

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

Job ID: 280-141448-1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: H2-100620
Date Collected: 10/06/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		10/15/20 16:13	10/19/20 22:52	2

Client Sample ID: H2-100720
Date Collected: 10/07/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		10/15/20 16:13	10/19/20 22:56	2

Client Sample ID: H2-100820
Date Collected: 10/08/20 09:00
Date Received: 10/10/20 09:20

Lab Sample ID: 280-141448-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		10/15/20 16:13	10/19/20 23:10	2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-456049/19-A
Matrix: Water
Analysis Batch: 456588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrilidinone	ND		10	1.7	ug/L		10/14/20 16:18	10/19/20 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 120*	*10/14/20 16:18*	*10/19/20 11:19*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 120*	*10/14/20 16:18*	*10/19/20 11:19*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*33 - 120*	*10/14/20 16:18*	*10/19/20 11:19*	*1*
Nitrobenzene-d5 (Surr)	*73*		*33 - 120*	*10/14/20 16:18*	*10/19/20 11:19*	*1*
Phenol-d5 (Surr)	*28*		*10 - 120*	*10/14/20 16:18*	*10/19/20 11:19*	*1*
Terphenyl-d14 (Surr)	*96*		*36 - 122*	*10/14/20 16:18*	*10/19/20 11:19*	*1*

Lab Sample ID: LCS 240-456049/21-A
Matrix: Water
Analysis Batch: 456588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456049

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1-Methyl-2-pyrrilidinone			20.0	3.18	J	ug/L		16	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*39 - 120*
2-Fluorophenol (Surr)	*55*		*10 - 120*
2,4,6-Tribromophenol (Surr)	*84*		*33 - 120*
Nitrobenzene-d5 (Surr)	*79*		*33 - 120*
Phenol-d5 (Surr)	*33*		*10 - 120*
Terphenyl-d14 (Surr)	*100*		*36 - 122*

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 680-638613/11
Matrix: Water
Analysis Batch: 638613

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			10/13/20 13:34	1

Lab Sample ID: LCS 680-638613/7
Matrix: Water
Analysis Batch: 638613

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			20.0	20.2		mg/L		101	61 - 148		

Lab Sample ID: LCSD 680-638613/8
Matrix: Water
Analysis Batch: 638613

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			20.0	18.8		mg/L		94	61 - 148	7	50

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) (Continued)

Lab Sample ID: 680-189907-B-7 MS
Matrix: Water
Analysis Batch: 638613

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		20.0	20.1		mg/L		100	61 - 148		

Lab Sample ID: 680-189907-B-7 MSD
Matrix: Water
Analysis Batch: 638613

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		20.0	19.4		mg/L		97	61 - 148	4	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-296334/1-A
Matrix: Water
Analysis Batch: 296737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 296334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.11	mg/L		10/21/20 08:00	10/22/20 14:15	1

Lab Sample ID: LCS 310-296334/2-A
Matrix: Water
Analysis Batch: 296737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 296334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indium	2.00	1.96		mg/L		98	80 - 120

Lab Sample ID: 280-141448-1 MS
Matrix: Water
Analysis Batch: 296737

Client Sample ID: H2-100520
Prep Type: Total/NA
Prep Batch: 296334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Indium	ND		2.00	1.90		mg/L		95	75 - 125		

Lab Sample ID: 280-141448-1 MSD
Matrix: Water
Analysis Batch: 296737

Client Sample ID: H2-100520
Prep Type: Total/NA
Prep Batch: 296334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indium	ND		2.00	1.85		mg/L		92	75 - 125	3	20

Lab Sample ID: 310-193277-A-7-B DU
Matrix: Water
Analysis Batch: 296737

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 296334

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

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-485888/1-A ^2
Matrix: Water
Analysis Batch: 486245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 485888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		10/15/20 16:13	10/19/20 22:04	2

Lab Sample ID: LCS 160-485888/2-A ^2
Matrix: Water
Analysis Batch: 486245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 485888

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Platinum			100	90.6	E	ug/L		91	80 - 120		

Lab Sample ID: 280-140809-J-2-B MS ^2
Matrix: Water
Analysis Batch: 486245

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 485888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Platinum	ND		100	90.4	E	ug/L		90	75 - 125		

Lab Sample ID: 280-140809-J-2-C MSD ^2
Matrix: Water
Analysis Batch: 486245

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 485888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Platinum	ND		100	91.6	E	ug/L		92	75 - 125	1	20

QC Association Summary

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

Job ID: 280-141448-1

GC/MS Semi VOA

Prep Batch: 456049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-4	H2-100820	Total/NA	Water	3510C	
MB 240-456049/19-A	Method Blank	Total/NA	Water	3510C	
LCS 240-456049/21-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 456588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-4	H2-100820	Total/NA	Water	8270C	456049
MB 240-456049/19-A	Method Blank	Total/NA	Water	8270C	456049
LCS 240-456049/21-A	Lab Control Sample	Total/NA	Water	8270C	456049

GC VOA

Analysis Batch: 638613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-4	H2-100820	Total/NA	Water	8015C	
MB 680-638613/11	Method Blank	Total/NA	Water	8015C	
LCS 680-638613/7	Lab Control Sample	Total/NA	Water	8015C	
LCSD 680-638613/8	Lab Control Sample Dup	Total/NA	Water	8015C	
680-189907-B-7 MS	Matrix Spike	Total/NA	Water	8015C	
680-189907-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Metals

Prep Batch: 296334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-1	H2-100520	Total/NA	Water	3010A	
280-141448-2	H2-100620	Total/NA	Water	3010A	
280-141448-3	H2-100720	Total/NA	Water	3010A	
280-141448-4	H2-100820	Total/NA	Water	3010A	
MB 310-296334/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-296334/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-141448-1 MS	H2-100520	Total/NA	Water	3010A	
280-141448-1 MSD	H2-100520	Total/NA	Water	3010A	
310-193277-A-7-B DU	Duplicate	Dissolved	Water	3010A	

Analysis Batch: 296737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-1	H2-100520	Total/NA	Water	6010C	296334
280-141448-2	H2-100620	Total/NA	Water	6010C	296334
280-141448-3	H2-100720	Total/NA	Water	6010C	296334
280-141448-4	H2-100820	Total/NA	Water	6010C	296334
MB 310-296334/1-A	Method Blank	Total/NA	Water	6010C	296334
LCS 310-296334/2-A	Lab Control Sample	Total/NA	Water	6010C	296334
280-141448-1 MS	H2-100520	Total/NA	Water	6010C	296334
280-141448-1 MSD	H2-100520	Total/NA	Water	6010C	296334
310-193277-A-7-B DU	Duplicate	Dissolved	Water	6010C	296334

Prep Batch: 485888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-1	H2-100520	Total/NA	Water	3010A	
280-141448-2	H2-100620	Total/NA	Water	3010A	
280-141448-3	H2-100720	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 485888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-4	H2-100820	Total/NA	Water	3010A	
MB 160-485888/1-A ^2	Method Blank	Total/NA	Water	3010A	
LCS 160-485888/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
280-140809-J-2-B MS ^2	Matrix Spike	Total/NA	Water	3010A	
280-140809-J-2-C MSD ^2	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 486245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-141448-1	H2-100520	Total/NA	Water	6020A	485888
280-141448-2	H2-100620	Total/NA	Water	6020A	485888
280-141448-3	H2-100720	Total/NA	Water	6020A	485888
280-141448-4	H2-100820	Total/NA	Water	6020A	485888
MB 160-485888/1-A ^2	Method Blank	Total/NA	Water	6020A	485888
LCS 160-485888/2-A ^2	Lab Control Sample	Total/NA	Water	6020A	485888
280-140809-J-2-B MS ^2	Matrix Spike	Total/NA	Water	6020A	485888
280-140809-J-2-C MSD ^2	Matrix Spike Duplicate	Total/NA	Water	6020A	485888

Lab Chronicle

Client: Intel Corporation
Job ID: 280-141448-1
Project/Site: Semi Annual Waste Water

Client Sample ID: H2-100520
Lab Sample ID: 280-141448-1
Date Collected: 10/05/20 09:00
Matrix: Water
Date Received: 10/10/20 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	296334	10/21/20 08:00	HED	TAL CF
Total/NA	Analysis	6010C		1			296737	10/22/20 14:19	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	485888	10/15/20 16:13	CJJ	TAL SL
Total/NA	Analysis	6020A		2			486245	10/19/20 22:49	DAS	TAL SL

Client Sample ID: H2-100620
Lab Sample ID: 280-141448-2
Date Collected: 10/06/20 09:00
Matrix: Water
Date Received: 10/10/20 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	296334	10/21/20 08:00	HED	TAL CF
Total/NA	Analysis	6010C		1			296737	10/22/20 14:25	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	485888	10/15/20 16:13	CJJ	TAL SL
Total/NA	Analysis	6020A		2			486245	10/19/20 22:52	DAS	TAL SL

Client Sample ID: H2-100720
Lab Sample ID: 280-141448-3
Date Collected: 10/07/20 09:00
Matrix: Water
Date Received: 10/10/20 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	296334	10/21/20 08:00	HED	TAL CF
Total/NA	Analysis	6010C		1			296737	10/22/20 14:27	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	485888	10/15/20 16:13	CJJ	TAL SL
Total/NA	Analysis	6020A		2			486245	10/19/20 22:56	DAS	TAL SL

Client Sample ID: H2-100820
Lab Sample ID: 280-141448-4
Date Collected: 10/08/20 09:00
Matrix: Water
Date Received: 10/10/20 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	3510C			1030 mL	2 mL	456049	10/14/20 16:18	MDH	TAL CAN
Total/NA	Analysis	8270C		40			456588	10/19/20 14:31	JMG	TAL CAN
Total/NA	Analysis	8015C		1			638613	10/13/20 22:07	DC	TAL SAV
Total/NA	Prep	3010A			50 mL	50 mL	296334	10/21/20 08:00	HED	TAL CF
Total/NA	Analysis	6010C		1			296737	10/22/20 14:29	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	485888	10/15/20 16:13	CJJ	TAL SL
Total/NA	Analysis	6020A		2			486245	10/19/20 23:10	DAS	TAL SL

Laboratory References:

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

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2010612

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: Donna Rydberg
Project P.O.:
Project: 28003759; Semi Annual Waste Water

Project Received: 10/13/2020

Analytical Report reviewed & approved for release on 10/16/2020 by:

Jennifer Lagerbom
Project Manager

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 2010612

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
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
LQL	Lowest Quantitation Level
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)

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	TestAmerica Denver	**WorkOrder:**	2010612
Date Received:	10/13/2020 10:54	**Extraction Method:**	SW3050B
Date Prepared:		**Analytical Method:**	SW6010B
Project:	28003759; Semi Annual Waste Water	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-100520 (280-141448-1)	2010612-001A	Water	10/05/2020 09:00	ICP-OES 24	207267

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	10/15/2020 11:30

Surrogates	REC (%)	Limits	
Terbium	105	70-130	10/15/2020 11:30

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-100620 (280-141448-2)	2010612-002A	Water	10/06/2020 09:00	ICP-OES 37	207267

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	10/15/2020 12:06

Surrogates	REC (%)	Limits	
Terbium	101	70-130	10/15/2020 12:06

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-100720 (280-141448-3)	2010612-003A	Water	10/07/2020 09:00	ICP-OES 38	207267

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	10/15/2020 12:08

Surrogates	REC (%)	Limits	
Terbium	104	70-130	10/15/2020 12:08

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-100820 (280-141448-4)	2010612-004A	Water	10/08/2020 09:00	ICP-OES 39	207267

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	10/15/2020 12:11

Surrogates	REC (%)	Limits	
Terbium	102	70-130	10/15/2020 12:11

Analyst(s): DB

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	TestAmerica Denver	**WorkOrder:**	2010612
Date Prepared:	10/13/2020	**BatchID:**	207267
Date Analyzed:	10/15/2020	**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-207267 2010612-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	16.0	20.0	-	-	-
Surrogate Recovery						
Terbium	497			500	99	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	938	988	1000	94	99	85-115	5.20	20
Surrogate Recovery								
Terbium	480	509	500	96	102	70-130	5.94	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1	1030	1050	1000	ND	103	105	70-130	1.47	20
Surrogate Recovery										
Terbium	1	523	510	500		105	102	70-130	2.46	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2010612 **ClientCode: TADC**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☑ Dry-Weight ☐ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag
☑ Detection Summary ☑ Excel [FormatA]

Report to:
Donna Rydberg
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: donna.rydberg@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
accountspayablel@eurofinsus.com

Requested TAT: 5 days;

Date Received: **10/13/2020**
Date Logged: **10/13/2020**

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
2010612-001	H2-100520 (280-141448-1)	Water	10/5/2020 09:00	☐	A	A										
2010612-002	H2-100620 (280-141448-2)	Water	10/6/2020 09:00	☐	A	A										
2010612-003	H2-100720 (280-141448-3)	Water	10/7/2020 09:00	☐	A	A										
2010612-004	H2-100820 (280-141448-4)	Water	10/8/2020 09:00	☐	A	A										

Test Legend:

1	METALS_6010_TTLC_W	2	PRDisposal Fee	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.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER
Client Contact: Donna Rydberg
Contact's Email: donna.rydberg@testamericainc.com

Project: 28003759; Semi Annual Waste Water
Comments:

Work Order: 2010612
QC Level: LEVEL 2
Date Logged: 10/13/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ Excel ☐ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2010612-001A	H2-100520 (280-141448-1)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	☐	10/5/2020 9:00	5 days	None	☐	
2010612-002A	H2-100620 (280-141448-2)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	☐	10/6/2020 9:00	5 days	None	☐	
2010612-003A	H2-100720 (280-141448-3)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	☐	10/7/2020 9:00	5 days	None	☐	
2010612-004A	H2-100820 (280-141448-4)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	☐	10/8/2020 9:00	5 days	None	☐	

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.

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

Chain of Custody Record

eurofins | Environment Testing America

20106l2

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-542581.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: McCampbell Analytical, Inc.		Accreditations Required (See note):		Job #: 280-141448-1
Address: 1534 Willow Pass Road, ,	Due Date Requested: 10/21/2020			
City: Pittsburg	TAT Requested (days):			
State, Zip: CA, 94565				
Phone:	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

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)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Gallium - McCambell Analytical, Inc.)/ 6010B Gallium	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
H2-100520 (280-141448-1)	10/5/20	09:00 Mountain		Water			X	1	
H2-100620 (280-141448-2)	10/6/20	09:00 Mountain		Water			X	1	
H2-100720 (280-141448-3)	10/7/20	09:00 Mountain		Water			X	1	
H2-100820 (280-141448-4)	10/8/20	09:00 Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed Fedex - 923452309981	☐ Return To Client ☐ Disposal By Lab ☐ 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:	Date/Time:	Company	Received by:	Date/Time:	Company
Lisa Nielsen	10/12/20 1421	ETADen		10/13/2020 @ 10:54	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Page 23 of 39

10/27/2020

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**TestAmerica Denver**	Date and Time Received:	**10/13/2020 10:54**
Project:	**28003759; Semi Annual Waste Water**	Date Logged:	**10/13/2020**
		Received by:	Tina Perez
WorkOrder №:	**2010612** Matrix: Water	Logged by:	Tina Perez
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	☑		
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; Nitrate 353.2/4500NO3: <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: 280-141448-1

Login Number: 141448
List Number: 1
Creator: Pottruff, Reed W

List Source: Eurofins 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: 280-141448-1

Login Number: 141448
List Number: 4
Creator: Marzen, Brita K

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 10/13/20 03:18 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	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-141448-1

Login Number: 141448
List Number: 2
Creator: Mooken, Darmal

List Source: Eurofins TestAmerica, Savannah
List Creation: 10/13/20 11:54 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.	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 <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: 280-141448-1

Login Number: 141448
List Number: 5
Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis
List Creation: 10/14/20 03:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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.	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	

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

Chain of Custody Record

Denver #280

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: K. URBAN	Lab PM: Bindel, DiLea	Carrier Tracking No(s):	COC No: 280-23927-10503.1
Client Contact: ~~Carrie Weitz / Megan Rosebrough~~ AMY REED	Phone:	E-Mail: dilea.bindel@testamericainc.com		Page: Page 1 of 1
Company: Intel Corporation		**Analysis Requested**		Job #:
Address: 4100 Sara Road Mail Stop RR5-491	Due Date Requested:			**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, 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)
City: Rio Rancho	TAT Requested (days):			
State, Zip: NM, 87124				
Phone: (505) 794-4100 (Tel)	PO #:			
Email: carrie.a.weitz@intel.com	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI - Ethylene Glycol (Sub -SAV)	8270C - 1-Methyl-2-pyrrolidone (NMP) (Sub - Canton)	6010B - Gallium (Sub - McCambell Analytical, Inc)	6010C - Indium (Sub - Cedar Falls)	6020A - Platinum (Sub - St. Louis)	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	D	D	D		
H2-100520	10/5/20	0900	C	W					X	X	X		
H2-100620	10/6/20	0900	C	W					X	X	X		
H2-100720	10/7/20	0900	C	W					X	X	X		
H2-100820	10/8/20	0900	C	W			X	X	X	X	X		

280-141448 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: RR 10/16

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
KEN URBAN	10-8-20 1:00 PM		Nicole Cross	~~10/10/2020~~ 10:24	ETA DEN
				10-9-20 0920	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1373450, 1373451	Cooler Temperature(s) °C and Other Remarks: 2.0°C, IR11, CF -0.3 10/10/2020 NC

0-141448 Login
M: Rydberg, Donna R
Company: Intel Corporation

Date/Time Received: 10/09/2020 FedEx Priority Overnight 0920

Intel Corp / Semi Ann.

Time Zone: • EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER State: NM

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR)

Temp 2.0C	IR# 11	Temp	IR#	Temp	IR#	Temp	IR#
CF -0.3	Initials JO	CF	Initials	CF	Initials	CF	Initials
Date 10/09/2020		Date		Date		Date	

Initials NC

N/A	Yes	No		
☑	☐	☐	1a.	For suspected radiological coolers, is activity <100 CPM above background? (β/γ CPM) Bkg:_____ Reading:_____
☐	☑	☐	1b.	For all coolers, is radioactivity at or below background? (γ µR/hr) Bkg: 20 Reading: 20
☐	☑	☐	2a.	Is a custody seal present on the cooler? 1373450, 1073451
☐	☑	☐	2b.	If yes, is the cooler's custody seal intact?
☐	☑	☐	2c.	Do cooler or samples appear to not have been compromised or tampered with?
☐	☑	☐	3a.	Were samples received on ice?
☐	☑	☐	3b.	Is cooler temperature acceptable?
☐	☑	☐	3c.	Has temperature been recorded?
☐	☑	☐	4.	Is COC present; filled out in ink and legible; and filled out with all pertinent information?
☐	☑	☐	5.	Is the Field Sampler's name present on the COC?
☐	☑	☐	6a.	Are there no discrepancies between the **sample IDs** and/or **collection date and time** on the containers and the COC?
☐	☑	☐	6b.	Are there no discrepancies between the container types and those listed on the COC?
☐	☑	☐	7.	Are samples received within Holding Time?
☐	☑	☐	8.	Do sample containers have legible labels?
☐	☑	☐	9.	Are all sample containers intact (not broken or leaking)?
☐	☑	☐	10a.	Are appropriate sample containers used?
☐	☑	☐	10b.	Are sample bottles completely filled? (Perchlorate bottles ≥ 1/3 head space)
☐	☑	☐	10c.	Is sufficient vol. for all requested analyses, incl. any requested MS/MSDs provided?
☐	☑	☐	11.	No splitting or compositing of samples required?
☐	☑	☐	12.	Do all VOA sample vials have no headspace or bubbles >6 mm (1/4") in diameter?
☑	☐	☐	13.	Were VOA vials labeled as preserved? ☐ HCl ☐ 0-6°C ☐ Sodium Thiosulfate ☐ Ascorbic Acid ☐ Other
☐	☑	☐	14.	Are all samples single phase? (i.e., no multiphasic samples are present.)

Initials RP

Login Checks:

☑	☐	☐	15.	Was a Priority Form completed for any short holds or quick TATs?
☐	☑	☐	16.	Were any tests logged for subcontract?
☑	☐	☐	17.	Were special archiving instructions and login instructions indicated in the Project Notes?

Note Archive Requirements: _____

☑	☐	☐	18.	Were multiple Series logged for this job?

Initials RS

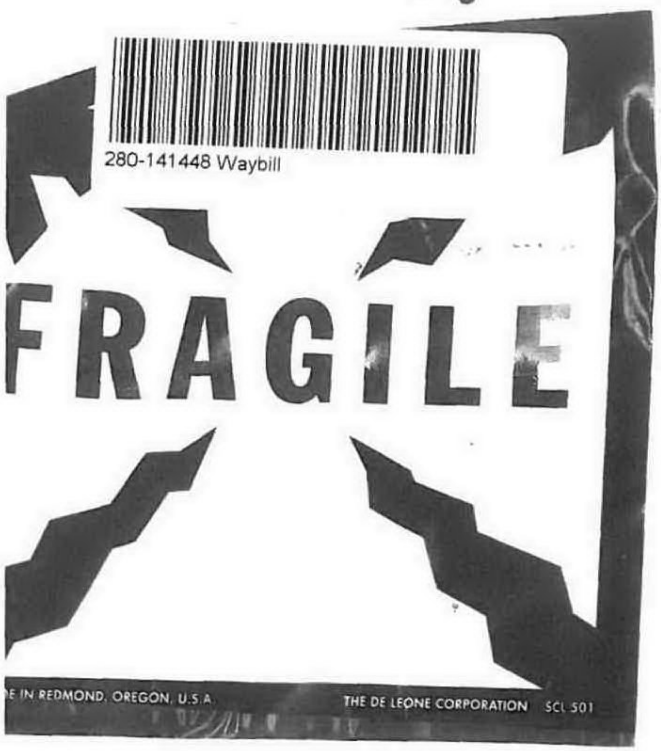
Labeling and Storage Checks:

pH Checks Required? ☐ Yes ☑ No Residual chlorine check required: ☐ Yes ☑ No Quarantined: ☐ Yes ☑ No

☑	☐	☐	19.	Was Sample Preservation verified and found to be correct? (excluding VOA, Oil & Grease, and TOC volumes)
☑	☐	☐	20.	Was Residual Chlorine checked and noted on the CUR if present?
☐	☑	☐	21.	If subcontract work was requested, was volume placed on sub shelf?
☑	☐	☐	22.	Were Terracore/Encores/CoreNOnes delivered to VOA lab?
☐	☑	☐	23.	Did the sample ID on TA label match the client's sample ID on container?
☑	☐	☐	24.	Were stickers for special archiving instructions affixed to each box?
☐	☑	☐	25.	Have the following been recorded on the CoC? Received By, Date, Time, Temperature, and IR Gun Used?

DV-F-0052-8-31-2018-Rev 17

Page 1 of 1



PACKING LIST

Page 1 of 1

SHIP TO:
Test America
4955 Yarrow Street
Arvada Colorado 80002
United States

Reference Number: 1304671450

rmediate/Consign-To
America
Yarrow Street
da Colorado 80002
ed States

RMA#
Category
Repair Cost

IRT NO
L NO
n Copper

Pro
De
EBook

ORIGIN ID:ONMA 50589312170000
RIO RANCHO SHIPPING
INTEL
1600 RIO RANCHO DR SE

RIO RANCHO, NM 87124
UNITED STATES US

SHIP DATE: 08OCT20
ACTWGT: 40.00 LB
CAD: 515551/FXRS1807

BILL SENDER

TO TEST AMERICA
TEST AMERICA
4955 YARROW STREET

ARVADA CO 80002
(303) 736-0100 REF: 1304671450
INV:
PO: DEPT:

551C2/A27E/DCA5

FedEx Express

J181119081301uv

TRK# 0201 9183 0362 8621

FRI - 09 OCT 10:30A
PRIORITY OVERNIGHT

XH LAAA

80002
CO-US DEN

650 4 10.30 E 8621 10.09

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-542580.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 280-141448-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/21/2020			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

Analysis Requested

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, 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)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3010A_2% (MOD) 6020A Platinum	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
H2-100520 (280-141448-1)	10/5/20	09:00 Mountain		Water			X	1	
H2-100620 (280-141448-2)	10/6/20	09:00 Mountain		Water			X	1	
H2-100720 (280-141448-3)	10/7/20	09:00 Mountain		Water			X	1	
H2-100820 (280-141448-4)	10/8/20	09:00 Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/2/2020 1300		FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: 10/13/2020 0922	Company ETA STL
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-542576.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 280-141448-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 10/22/2020			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

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)

Other:

C221

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C/3510C_Acid (MOD) 1-Methyl-2-Pyrrolidone (NMP)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
H2-100820 (280-141448-4)	10/8/20	09:00 Mountain		Water			X	2	need list 3 spike Must spike NMP!

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/12/2020 1345		[signature]	10/13/2020 1000	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client TA Canton Site Name _____ Cooler unpacked by: B. Bridwell
Cooler Received on 10/13/20 Opened on 10/13/20
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____
Receipt After-hours: Drop-off Date/Time _____ Storage Location _____
TestAmerica Cooler # 1A 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-11 (CF **+0.9** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
IR GUN #IR-12 (CF **+0.5**°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 (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?	Yes	No
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC907861**
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17. 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 _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19. 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)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login # : ____________

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
TA Client Box Other	IR-10 IR-11	0.7	1.6	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11	10.5	11.4	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11	9.8	10.7	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

eurofins | Environment Testing TestAmerica

280-141448 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: ET# Denver

City/State: CITY Arvada STATE CO Project: SA. WW

Receipt Information

Date/Time Received: DATE 10.13.20 TIME 1025 Received By: BKM

Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	☒ Yes	☐ No	*If yes:* Cooler custody seals intact? ☒ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: N Correction Factor (°C): TD.0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.8 Corrected Temp (°C): 3.8

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ 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?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-542577.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 280-141448-1
Address: 3019 Venture Way, ,	Due Date Requested: 10/21/2020			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

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)

Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3010A (MOD) 6010C Indium	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
H2-100520 (280-141448-1)	10/5/20	09:00 Mountain		Water			X	1	
H2-100620 (280-141448-2)	10/6/20	09:00 Mountain		Water			X	1	
H2-100720 (280-141448-3)	10/7/20	09:00 Mountain		Water			X	1	
H2-100820 (280-141448-4)	10/8/20	09:00 Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/14/2020 1830		[signature]	10.13.20 1025	EA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-542578.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 280-141448-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/21/2020			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

Analysis Requested

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
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)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI/ (MOD) 8015C Ethylene Glycol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
H2-100820 (280-141448-4)	10/8/20	09:00 Mountain		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/12/2020 1400				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-542578.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 280-141448-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/21/2020			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

Analysis Requested

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, 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)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI/ (MOD) 8015C Ethylene Glycol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
H2-100820 (280-141448-4)	10/8/20	09:00 Mountain		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/12/2020 1400			10-13-2020/0930	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.6/4.3

Ver: 01/16/2019

ATTACHMENT D

Self-Monitoring Analytical Results –

NMP and Ethylene Glycol

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 280-139630-1
Client Project/Site: Semi Annual Waste Water

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

Attn: Amy Reed

Donna Rydberg

Authorized for release by:
8/31/2020 10:53:35 AM

Donna Rydberg, Senior Project Manager
(303)736-0192
Donna.Rydberg@Eurofinset.com

Table of Contents

Job ID: 280-139630-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Semi Annual Waste Water

Report Number: 280-139630-1

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 8/19/2020 at 9:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9ºC.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample AUG-NMP (280-139630-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/24/2020 and analyzed on 08/25/2020.

Sample AUG-NMP (280-139630-1)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. Due to dilutions performed surrogates 2,4,6-Tribromophenol and 2-Fluorophenol failed the surrogate recovery criteria low in sample AUG-NMP (280-139630-1). These surrogates are not associated with NMP and do not affect the data. Therefore, re-extraction and re-analysis was not performed.

No additional 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 AUG-EG (280-139630-2) was analyzed for Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) in accordance with SW846 8015C. The samples were analyzed on 08/27/2020.

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: Semi Annual Waste Water

Job ID: 280-139630-1

Qualifiers

GC/MS Semi VOA

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.
X	Surrogate recovery exceeds control limits

GC VOA

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Detection Summary

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

Job ID: 280-139630-1

Client Sample ID: AUG-NMP — Lab Sample ID: 280-139630-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methyl-2-pyrrilidinone	3100		960	160	ug/L	100		8270C	Total/NA

Client Sample ID: AUG-EG — Lab Sample ID: 280-139630-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene glycol	3.6	J	5.0	1.2	mg/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-139630-1

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
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:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

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

Job ID: 280-139630-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-139630-1	AUG-NMP	Water	08/18/20 09:00	08/19/20 09:00	
280-139630-2	AUG-EG	Water	08/18/20 09:00	08/19/20 09:00	

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: AUG-NMP
Date Collected: 08/18/20 09:00
Date Received: 08/19/20 09:00

Lab Sample ID: 280-139630-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrilidinone	3100		960	160	ug/L		08/24/20 06:27	08/25/20 14:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 120*	*08/24/20 06:27*	*08/25/20 14:20*	*100*
2-Fluorophenol (Surr)	*0*	*X*	*10 - 120*	*08/24/20 06:27*	*08/25/20 14:20*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*33 - 120*	*08/24/20 06:27*	*08/25/20 14:20*	*100*
Nitrobenzene-d5 (Surr)	*73*		*33 - 120*	*08/24/20 06:27*	*08/25/20 14:20*	*100*
Phenol-d5 (Surr)	*27*		*10 - 120*	*08/24/20 06:27*	*08/25/20 14:20*	*100*
Terphenyl-d14 (Surr)	*69*		*36 - 122*	*08/24/20 06:27*	*08/25/20 14:20*	*100*

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Client Sample ID: AUG-EG
Date Collected: 08/18/20 09:00
Date Received: 08/19/20 09:00

Lab Sample ID: 280-139630-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	3.6	J	5.0	1.2	mg/L			08/27/20 23:39	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-448343/18-A
Matrix: Water
Analysis Batch: 448585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrilidinone	ND		10	1.7	ug/L		08/24/20 06:27	08/25/20 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 120*	*08/24/20 06:27*	*08/25/20 10:03*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*08/24/20 06:27*	*08/25/20 10:03*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*33 - 120*	*08/24/20 06:27*	*08/25/20 10:03*	*1*
Nitrobenzene-d5 (Surr)	*74*		*33 - 120*	*08/24/20 06:27*	*08/25/20 10:03*	*1*
Phenol-d5 (Surr)	*37*		*10 - 120*	*08/24/20 06:27*	*08/25/20 10:03*	*1*
Terphenyl-d14 (Surr)	*99*		*36 - 122*	*08/24/20 06:27*	*08/25/20 10:03*	*1*

Lab Sample ID: LCS 240-448343/20-A
Matrix: Water
Analysis Batch: 448585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448343

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1-Methyl-2-pyrrilidinone			20.0	3.60	J	ug/L		18	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*84*		*39 - 120*
2-Fluorophenol (Surr)	*55*		*10 - 120*
2,4,6-Tribromophenol (Surr)	*72*		*33 - 120*
Nitrobenzene-d5 (Surr)	*81*		*33 - 120*
Phenol-d5 (Surr)	*36*		*10 - 120*
Terphenyl-d14 (Surr)	*105*		*36 - 122*

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 680-632060/11
Matrix: Water
Analysis Batch: 632060

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			08/27/20 15:57	1

Lab Sample ID: LCS 680-632060/7
Matrix: Water
Analysis Batch: 632060

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			20.0	19.2		mg/L		96	61 - 148		

Lab Sample ID: LCSD 680-632060/8
Matrix: Water
Analysis Batch: 632060

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			20.0	20.1		mg/L		101	61 - 148	5	50

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) (Continued)

Lab Sample ID: 680-187854-A-1 MS
Matrix: Water
Analysis Batch: 632060

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		20.0	18.9		mg/L		94	61 - 148		

Lab Sample ID: 680-187854-A-1 MSD
Matrix: Water
Analysis Batch: 632060

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		20.0	19.0		mg/L		95	61 - 148	1	50

QC Association Summary

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

Job ID: 280-139630-1

GC/MS Semi VOA

Prep Batch: 448343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139630-1	AUG-NMP	Total/NA	Water	3510C	
MB 240-448343/18-A	Method Blank	Total/NA	Water	3510C	
LCS 240-448343/20-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 448585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139630-1	AUG-NMP	Total/NA	Water	8270C	448343
MB 240-448343/18-A	Method Blank	Total/NA	Water	8270C	448343
LCS 240-448343/20-A	Lab Control Sample	Total/NA	Water	8270C	448343

GC VOA

Analysis Batch: 632060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139630-2	AUG-EG	Total/NA	Water	8015C	
MB 680-632060/11	Method Blank	Total/NA	Water	8015C	
LCS 680-632060/7	Lab Control Sample	Total/NA	Water	8015C	
LCSD 680-632060/8	Lab Control Sample Dup	Total/NA	Water	8015C	
680-187854-A-1 MS	Matrix Spike	Total/NA	Water	8015C	
680-187854-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Lab Chronicle

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

Job ID: 280-139630-1

Client Sample ID: AUG-NMP

Lab Sample ID: 280-139630-1

Date Collected: 08/18/20 09:00

Matrix: Water

Date Received: 08/19/20 09:00

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	448343	08/24/20 06:27	SDE	TAL CAN
Total/NA	Analysis	8270C		100			448585	08/25/20 14:20	JMG	TAL CAN

Client Sample ID: AUG-EG

Lab Sample ID: 280-139630-2

Date Collected: 08/18/20 09:00

Matrix: Water

Date Received: 08/19/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1			632060	08/27/20 23:39	DC	TAL SAV

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-139630-1

Login Number: 139630
List Number: 1
Creator: Lubin, Julius C

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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?	False	Refer to Job Narrative for details.
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.	True	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-139630-1

Login Number: 139630
List Number: 2
Creator: Mooken, Darmal

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/22/20 12:47 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.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

Chain of Custody Record

Denver #280

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-101240-30284.1
Client Contact: ~~Jeff Rudnik~~ AMY REED	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com		Page: Page 1 of 1
Company: Intel Corporation				Job #:
Address: 4100 Sara Road Mail Stop RR5-491	Due Date Requested:			
City: Rio Rancho	TAT Requested (days):			
State, Zip: NM, 87124				
Phone: 505-794-6841(Tel)	PO #: Pay by Credit Card			
Email: jeffrey.rudnik@intel.com	WO #:			
Project Name: Semi Annual NMP & Ethylene glycol	Project #: 28003759			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - 1-Methyl-2-Pyrrolidone (NMP)	8015C_DAI - (MOD) 8015C Ethylene Glycol	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
AUG-NMP	8/18/20	0900	C	Water			X			
				Water						
AUG-EG	8/18/20	0900	C	Water				X		
				Water						

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)

Other:

280-139630 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: KEN URBAN	Date/Time: 8-18-20/2Pm	Company	Received by:	Date/Time: 8-19-20 0900	Company ETADen	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1; IR11, -0.2, DS 8-19-20

Ver: 01/16/2019

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

1-2/2-1

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-536177.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 280-139630-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 9/1/2020			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

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)

Other:

C45

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C/3510C_Acid 1-Methyl-2-Pyrrolidone (NMP)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AUG-NMP (280-139630-1)	8/18/20	09:00 Mountain		Water			X	2	need list 3 spike Must spike NMP!

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/21/2020 1310		[signature]	8-22-20 1000	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

8/31/2020

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client ETA Denver Site Name _____ Cooler unpacked by: Matt Snyder

Cooler Received on 8-22-20 Opened on 8-22-20

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-10 (CF **+0.7** °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN #IR-11 (CF **+0.9**°C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 2.1 °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# HC911298
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): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-536178.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Rydberg@Eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 280-139630-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 8/31/2020			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Semi Annual Waste Water	Project #: 28003759			
Site:	SSOW#:			

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)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI/ (MOD) 8015C Ethylene Glycol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AUG-EG (280-139630-2)	8/18/20	09:00 Mountain		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/21/2020 1325			8-22-2020/0930	S/P
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 22/26

Ver: 01/16/2019