



January 29, 2020

**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, 2019 through December 31, 2019

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**

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

**Code**

CE  
CN  
FM6  
GS  
HAPS  
HZ3  
PH3  
RC  
SM  
SWSP  
TC3  
TR6  
WM

**Attachments:**

- A – Intel NM H2 2019 Grease Trap Pumping Manifests
- B – Intel NM TOMP – October 2019
- C – Weekly Cerium Sampling Reports
- D – Semi-Annual Monitoring Analytical Results

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

Sincerely,

Mindy Koch  
NM Site Corporate Services Manager

Enclosures

EHS006





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

Reporting Requirements

<u>Code</u>	<u>Endorsement</u>
CE	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
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
SM	SELF-MONITORING
SWSP	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
TC3	TOMP CERTIFICATION STATEMENT
TR6	TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN
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 AVG
Cerium	12.0 mg/L	3.0 mg/L

MONITORING REQUIREMENT: The Permittee is required to sample the site discharge for the above pollutants weekly (once per week) at the permitted sample point. Sample to be taken using 24-hour composite sample.

REPORTING REQUIREMENT: The Permittee is required to report weekly sample data monthly (once per month) to the Pretreatment Program. Permittee is required to include this data in their Semi-Annual Report as part of the "Special Wastestream Report".

**In compliance with Endorsement CE, Hall Environmental Analysis Laboratory submits cerium sampling results to Intel NM and ABCWUA simultaneously when results are ready. Results were submitted as follows for H2 2019 reporting:**

- August 8<sup>th</sup>, 2019 (June sample results)
- September 27<sup>th</sup>, 2019 (July sample results)
- October 18<sup>th</sup>, 2019 (August sample results)
- November 6<sup>th</sup>, 2019 (September sample results)
- December 20<sup>th</sup>, 2019 (October sample results)
- January 14<sup>th</sup>, 2019 (November sample results)

**The sample reports are included for reference in Attachment C. Requirements of Endorsement CE have been met for the samples included in this Semi-Annual Report. The December results for Cerium sampling were not available before submitting this report; they will be included in the 2020 H1 Semi-Annual Report. The June 2019 results for Cerium were not available before submitting the 2019 H1 Semi-Annual Report and have been provided 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: 1/29/2020  
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

## 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: 1,786,349 gallons per day

Peak Daily Flow: 2,916,959 gallons per day

Peak Daily Flow occurred on: 10/25/2019 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 2019**

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
7/1/2019	1,138	303	827	311
7/2/2019	1,155	306	841	314
7/3/2019	928	127	793	136
7/4/2019	919	125	786	133
7/5/2019	983	135	840	143
7/6/2019	964	123	833	131
7/7/2019	1,163	301	854	309
7/8/2019	1,104	296	800	304
7/9/2019	941	126	807	135
7/10/2019	981	124	848	132
7/11/2019	930	129	793	137
7/12/2019	989	130	851	138
7/13/2019	1,275	477	791	485
7/14/2019	928	131	789	139
7/15/2019	1,080	142	930	150
7/16/2019	1,041	134	898	143
7/17/2019	1,191	310	873	318
7/18/2019	1,114	317	788	325
7/19/2019	1,027	135	884	143
7/20/2019	930	135	787	143
7/21/2019	1,005	143	853	151
7/22/2019	1,149	309	831	318
7/23/2019	1,023	135	879	144
7/24/2019	1,256	321	927	329
7/25/2019	1,176	156	1,011	165
7/26/2019	1,059	143	908	152
7/27/2019	1,145	305	832	313
7/28/2019	1,018	134	875	142
7/29/2019	1,035	144	882	153
7/30/2019	1,129	311	810	319
7/31/2019	1,104	144	952	152
	<b>gpm</b>	<b>gpd</b>		
<b>Average</b>	<b>1,061</b>	<b>1,527,334</b>		
<b>Peak</b>	<b>1,275</b>	<b>1,836,711</b>	<b>Peak Date</b>	<b>7/13/2019</b>

# Intel Semi-Annual Wastewater Report | H2 2019

## August 2019

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
8/1/2019	1,231	314	909	322
8/2/2019	1,023	134	880	143
8/3/2019	1,028	135	885	143
8/4/2019	1,300	321	971	329
8/5/2019	1,091	146	937	154
8/6/2019	1,140	302	829	311
8/7/2019	1,047	134	904	143
8/8/2019	1,077	139	929	147
8/9/2019	1,064	135	920	144
8/10/2019	1,162	308	845	317
8/11/2019	1,168	302	857	311
8/12/2019	1,030	129	893	137
8/13/2019	1,044	138	898	147
8/14/2019	1,042	135	899	143
8/15/2019	1,166	306	851	314
8/16/2019	1,139	306	825	314
8/17/2019	961	139	814	147
8/18/2019	1,102	155	939	163
8/19/2019	1,130	156	965	164
8/20/2019	1,269	328	933	337
8/21/2019	1,453	161	1,284	170
8/22/2019	1,073	140	925	149
8/23/2019	1,114	155	951	163
8/24/2019	1,220	228	984	236
8/25/2019	1,370	433	929	442
8/26/2019	1,231	166	1,057	174
8/27/2019	1,174	156	1,009	165
8/28/2019	1,230	159	1,062	168
8/29/2019	1,341	328	1,005	337
8/30/2019	1,167	193	966	201
8/31/2019	1,213	283	922	291
	<b>gpm</b>	<b>gpd</b>		
<b>Average</b>	<b>1,155</b>	<b>1,663,007</b>		
<b>Peak</b>	<b>1,453</b>	<b>2,092,842</b>	<b>Peak Date</b>	<b>8/21/2019</b>

# Intel Semi-Annual Wastewater Report | H2 2019

## September 2019

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
9/1/2019	1,101	149	943	158
9/2/2019	1,273	323	942	332
9/3/2019	1,126	150	967	159
9/4/2019	1,118	150	959	159
9/5/2019	1,200	320	872	328
9/6/2019	982	138	836	146
9/7/2019	1,179	315	856	323
9/8/2019	996	130	858	139
9/9/2019	1,081	144	928	153
9/10/2019	1,150	305	836	314
9/11/2019	1,091	135	948	143
9/12/2019	1,258	321	928	329
9/13/2019	1,025	133	883	142
9/14/2019	1,089	135	945	144
9/15/2019	1,085	135	942	143
9/16/2019	1,303	319	975	327
9/17/2019	1,235	304	923	312
9/18/2019	1,108	136	964	144
9/19/2019	1,110	145	956	153
9/20/2019	1,048	136	904	144
9/21/2019	1,236	315	913	323
9/22/2019	1,355	320	1,027	328
9/23/2019	1,264	157	1,098	165
9/24/2019	1,277	158	1,111	166
9/25/2019	1,326	163	1,155	171
9/26/2019	1,529	504	1,016	513
9/27/2019	1,232	156	1,068	165
9/28/2019	1,241	161	1,072	169
9/29/2019	1,226	160	1,058	168
9/30/2019	1,366	328	1,029	337
	<b>gpm</b>	<b>gpd</b>		
<b>Average</b>	<b>1,187</b>	<b>1,709,176</b>		
<b>Peak</b>	<b>1,529</b>	<b>2,201,058</b>	<b>Peak Date</b>	<b>9/26/2019</b>



# Intel Semi-Annual Wastewater Report | H2 2019

## October 2019

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
10/1/2019	1,475	336	1,131	345
10/2/2019	1,301	161	1,132	169
10/3/2019	1,283	161	1,114	169
10/4/2019	1,466	323	1,134	332
10/5/2019	1,261	164	1,089	172
10/6/2019	1,472	333	1,130	342
10/7/2019	1,361	170	1,183	178
10/8/2019	1,274	158	1,107	166
10/9/2019	1,521	341	1,172	349
10/10/2019	1,272	160	1,104	168
10/11/2019	1,540	333	1,198	341
10/12/2019	1,400	172	1,220	180
10/13/2019	1,480	331	1,141	339
10/14/2019	1,333	159	1,166	167
10/15/2019	1,358	200	1,150	208
10/16/2019	1,386	295	1,083	304
10/17/2019	1,419	330	1,080	339
10/18/2019	1,294	159	1,127	167
10/19/2019	1,325	165	1,152	173
10/20/2019	1,458	336	1,113	345
10/21/2019	1,498	162	1,328	170
10/22/2019	1,286	157	1,121	166
10/23/2019	1,323	158	1,157	167
10/24/2019	1,326	330	987	339
10/25/2019	2,026	375	1,642	383
10/26/2019	1,886	291	1,587	299
10/27/2019	1,756	157	1,591	165
10/28/2019	1,440	151	1,281	159
10/29/2019	1,382	173	1,201	181
10/30/2019	1,624	435	1,180	444
10/31/2019	1,368	229	1,131	237
	<b>gpm</b>	<b>gpd</b>		
<b>Average</b>	<b>1,439</b>	<b>2,071,510</b>		
<b>Peak</b>	<b>2,026</b>	<b>2,916,959</b>	<b>Peak Date</b>	<b>10/25/2019</b>

# Intel Semi-Annual Wastewater Report | H2 2019

## November 2019

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
11/1/2019	1,310	161	1,140	170
11/2/2019	1,301	162	1,131	170
11/3/2019	1,480	334	1,137	343
11/4/2019	1,476	337	1,131	345
11/5/2019	1,347	168	1,171	176
11/6/2019	1,378	163	1,206	172
11/7/2019	1,541	339	1,193	347
11/8/2019	1,354	160	1,185	169
11/9/2019	1,474	333	1,133	341
11/10/2019	1,321	164	1,149	173
11/11/2019	1,383	333	1,042	341
11/12/2019	1,488	163	1,317	171
11/13/2019	1,502	336	1,158	344
11/14/2019	1,356	165	1,182	173
11/15/2019	1,507	202	1,297	210
11/16/2019	1,322	291	1,023	299
11/17/2019	1,378	168	1,202	176
11/18/2019	1,529	338	1,183	346
11/19/2019	1,184	145	1,030	153
11/20/2019	1,470	330	1,132	338
11/21/2019	1,345	157	1,179	166
11/22/2019	1,281	151	1,122	160
11/23/2019	1,288	309	971	318
11/24/2019	1,209	240	961	248
11/25/2019	1,270	205	1,056	214
11/26/2019	1,210	144	1,057	153
11/27/2019	1,181	136	1,037	144
11/28/2019	1,173	136	1,029	144
11/29/2019	1,350	314	1,028	322
11/30/2019	1,315	304	1,003	312
	<b>gpm</b>	<b>gpd</b>		
<b>Average</b>	<b>1,357</b>	<b>1,954,741</b>		
<b>Peak</b>	<b>1,541</b>	<b>2,218,393</b>	<b>Peak Date</b>	<b>11/7/2019</b>

# Intel Semi-Annual Wastewater Report | H2 2019

## December 2019

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
12/1/2019	1,152	136	1,007	145
12/2/2019	1,191	136	1,047	144
12/3/2019	1,189	137	1,044	145
12/4/2019	1,453	483	961	492
12/5/2019	1,141	136	997	145
12/6/2019	1,184	134	1,041	142
12/7/2019	1,212	148	1,055	156
12/8/2019	1,195	141	1,045	150
12/9/2019	1,443	414	1,020	423
12/10/2019	1,194	201	985	209
12/11/2019	1,148	136	1,003	145
12/12/2019	1,174	136	1,029	145
12/13/2019	1,151	141	1,002	149
12/14/2019	1,343	309	1,025	318
12/15/2019	1,324	314	1,002	322
12/16/2019	1,173	136	1,028	144
12/17/2019	1,222	141	1,073	149
12/18/2019	1,216	142	1,067	150
12/19/2019	1,332	274	1,050	283
12/20/2019	1,365	349	1,008	357
12/21/2019	1,166	136	1,022	144
12/22/2019	1,148	136	1,003	144
12/23/2019	1,219	149	1,062	157
12/24/2019	1,405	314	1,082	323
12/25/2019	1,343	314	1,021	322
12/26/2019	1,226	140	1,078	149
12/27/2019	1,224	136	1,079	145
12/28/2019	1,254	147	1,099	155
12/29/2019	1,299	274	1,017	282
12/30/2019	1,301	285	1,008	293
12/31/2019	1,198	205	985	213
	<b>gpm</b>	<b>gpd</b>		
<b>Average</b>	<b>1,245</b>	<b>1,792,329</b>		
<b>Peak</b>	<b>1,453</b>	<b>2,091,817</b>	<b>Peak Date</b>	<b>12/4/2019</b>

## **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 2019 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

# Intel Semi-Annual Wastewater Report | H2 2019

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## 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:

1/29/2020

Signature:

Mindy Kohl

Title:

NM Corporate Services  
Manager

Authorized Representative

# Intel Semi-Annual Wastewater Report | H2 2019

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## 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: 1/09/2020

Signature:   
Authorized Representative

Title: NM Corporate Services  
Manager

**ENDORSEMENT HZ3**

**HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES**

**FOR PERMIT # 2021A**

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

**MONITORING REQUIREMENTS:** None required by the Permittee.

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

\* \* \* \*

**HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION  
STATEMENT**

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

Facility Name: \_\_\_\_\_

Permit No.: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Authorized Representative

US EPA ID. No. \_\_\_\_\_ (IF APPLICABLE)

# Intel Semi-Annual Wastewater Report | H2 2019

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\* \* \* \*

## 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: 1/29/2020

Signature: Mindy Koch

Authorized Representative

Title: NM Corporate Services  
Manager

US EPA ID. No. NMD000609339 (IF APPLICABLE)



**HAZARDOUS SUBSTANCES AND PRETREATMENT  
WASTE MANAGEMENT**

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

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

Veolia Environmental Services Technical Solutions  
9131 East 96<sup>th</sup> 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.

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
ZZ00109117	7/1/2019	529928	SLUDGE, CALCIUM FLUORIDE	16600	8.30	N
012708131FLE	7/1/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012708153FLE	7/1/2019	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
012831705FLE	7/1/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
0113158	7/1/2019	DecantGsolve470	Decant Gensolve 470	33	0.02	N
001508654VES	7/2/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	38900	19.45	Y
0113159	7/3/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00520621	7/4/2019	529928	SLUDGE, CALCIUM FLUORIDE	17260	8.63	N
011249780FLE	7/4/2019	DECANCMPCLEANB G	Decant Drum CMP Cleaner BG1	10	0.01	Y
001508863VES	7/8/2019	483253	SOLVENT, GENERAL-MIXED	33060	16.53	Y
ZZ00520622	7/8/2019	529928	SLUDGE, CALCIUM FLUORIDE	16080	8.04	N
012831706FLE	7/8/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
0113161	7/8/2019	DecantGsolve470	Decant Gensolve 470	55	0.03	N
012831707FLE	7/9/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113162	7/9/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
0113163	7/10/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001508655VES	7/11/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42000	21.00	Y
012708154FLE	7/11/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
0113164	7/11/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012831721FLE	7/12/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
0113165	7/12/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00812069	7/13/2019	529928	SLUDGE, CALCIUM FLUORIDE	14000	7.00	N
ZZ00520623	7/15/2019	529928	SLUDGE, CALCIUM FLUORIDE	14520	7.26	N
012831708FLE	7/15/2019	DECANT PBR-40	Decant Drum PBR 40	22	0.01	Y
012831722FLE	7/15/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
0113166	7/15/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
0113169	7/17/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N

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ZZ00812070	7/18/2019	529928	SLUDGE, CALCIUM FLUORIDE	15600	7.80	N
0113170	7/18/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
0113171	7/19/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00812071	7/20/2019	529928	SLUDGE, CALCIUM FLUORIDE	17140	8.57	N
001508656VES	7/22/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41820	20.91	Y
012831709FLE	7/22/2019	DECANT PBR-40	Decant Drum PBR 40	22	0.01	Y
012831711FLE	7/22/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
0113172	7/22/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00812076	7/23/2019	529928	SLUDGE, CALCIUM FLUORIDE	16840	8.42	N
0113173	7/23/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
012831710FLE	7/24/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
019447875JJK	7/24/2019	7919597	WXSCH4200SNDF R	1523	0.76	Y
0113174	7/24/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012831723FLE	7/25/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
ZZ00812077	7/26/2019	529928	SLUDGE, CALCIUM FLUORIDE	15900	7.95	N
0113175	7/26/2019	DecantGsolve470	Decant Gensolve 470	22	0.01	N
001508829VES	7/29/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42440	21.22	Y
ZZ00812078	7/29/2019	529928	SLUDGE, CALCIUM FLUORIDE	10560	5.28	N
013488127FLE	7/29/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
0113176	7/29/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
012831712FLE	7/30/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
0113177	7/30/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013488128FLE	7/31/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113178	7/31/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001508834VES	8/1/2019	442983	REPEATING LABPACK	71	0.04	Y
001508834VES	8/1/2019	442983	REPEATING LABPACK	80	0.04	Y
001508834VES	8/1/2019	442983	REPEATING LABPACK	21	0.01	Y
001508834VES	8/1/2019	442983	REPEATING LABPACK	48	0.02	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
001508834VES	8/1/2019	442983	REPEATING LABPACK	19	0.01	Y
001508834VES	8/1/2019	442983	REPEATING LABPACK	38	0.02	Y
001508834VES	8/1/2019	533335	DEBRIS, SOLVENT-HAZARDOUS	134	0.07	Y
001508834VES	8/1/2019	533335	DEBRIS, SOLVENT-HAZARDOUS	116	0.06	Y
001508834VES	8/1/2019	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	478	0.24	Y
001508834VES	8/1/2019	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	405	0.20	Y
001508834VES	8/1/2019	713453	HMDS DEBRIS	59	0.03	Y
001508834VES	8/1/2019	131484	PHOTORESIST WASTE	348	0.17	Y
001508834VES	8/1/2019	713455	AEROSOLS - FOOD SERVICE	6	0.00	Y
001508834VES	8/1/2019	202100	IPA CONTAMINATED WIPES	524	0.26	Y
001508834VES	8/1/2019	202100	IPA CONTAMINATED WIPES	441	0.22	Y
001508834VES	8/1/2019	202100	IPA CONTAMINATED WIPES	442	0.22	Y
001508834VES	8/1/2019	202100	IPA CONTAMINATED WIPES	450	0.23	Y
001508834VES	8/1/2019	202100	IPA CONTAMINATED WIPES	457	0.23	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	147	0.07	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	288	0.14	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	278	0.14	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	173	0.09	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	112	0.06	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	93	0.05	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	138	0.07	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	230	0.12	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	140	0.07	Y
001508834VES	8/1/2019	442913	DEBRIS, ARSENIC	141	0.07	Y
001508834VES	8/1/2019	442923	BROKEN MERCURY LIGHT BULBS	6	0.00	Y
001508834VES	8/1/2019	366524	AEROSOL CANS	38	0.02	Y
001508834VES	8/1/2019	693403	SOLVENTS, SPIN ON GLASS	211	0.11	Y
001508834VES	8/1/2019	692980	DIESEL FUEL, CONTAMINATED	409	0.20	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
001508834VES	8/1/2019	692980	DIESEL FUEL, CONTAMINATED	417	0.21	Y
001508834VES	8/1/2019	692980	DIESEL FUEL, CONTAMINATED	421	0.21	Y
001508834VES	8/1/2019	399773	SOLVENTS, HMDS	83	0.04	Y
001508834VES	8/1/2019	691900	DEBRIS, HOUSE VACUUM	107	0.05	Y
001508834VES	8/1/2019	692557	CYLINDERS, COMPRESSED GASES	24	0.01	Y
001508834VES	8/1/2019	399825	EDT PARTS	199	0.10	Y
001508834VES	8/1/2019	713454	CCW FILTERS, WIPES, ABSORBENTS, PPE	127	0.06	Y
001508834VES	8/1/2019	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	267	0.13	Y
001508834VES	8/1/2019	61641	LEAD-ACID BATTERIES (DAMAGED)	32	0.02	Y
ZZ00812200	8/1/2019	442912	LAMPS, MERCURY	368	0.18	N
ZZ00812200	8/1/2019	442912	LAMPS, MERCURY	105	0.05	N
ZZ00812200	8/1/2019	442912	LAMPS, MERCURY	25	0.01	N
ZZ00812200	8/1/2019	442912	LAMPS, MERCURY	128	0.06	N
ZZ00812200	8/1/2019	442912	LAMPS, MERCURY	153	0.08	N
ZZ00812200	8/1/2019	442912	LAMPS, MERCURY	119	0.06	N
ZZ00812200	8/1/2019	442912	LAMPS, MERCURY	42	0.02	N
ZZ00812200	8/1/2019	442983	REPEATING LABPACK	10	0.01	N
ZZ00812200	8/1/2019	442983	REPEATING LABPACK	54	0.03	N
ZZ00812200	8/1/2019	442983	REPEATING LABPACK	25	0.01	N
ZZ00812200	8/1/2019	252532	LIQUID ANALYTICAL WASTE	40	0.02	N
ZZ00812200	8/1/2019	532530	USED OIL	424	0.21	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	520	0.26	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	525	0.26	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	229	0.11	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	366	0.18	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	268	0.13	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	510	0.26	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	388	0.19	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	508	0.25	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	435	0.22	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	408	0.20	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	123	0.06	N
ZZ00812200	8/1/2019	448116	ETHYLENE GLYCOL SOLUTION-LAB/WASTE AREA	2396	1.20	N
ZZ00812079	8/1/2019	529928	SLUDGE, CALCIUM FLUORIDE	14240	7.12	N
ZZ00812200	8/1/2019	442694	BATTERIES, LEAD ACID - NON SPILLABLE	1151	0.58	N
ZZ00812200	8/1/2019	442694	BATTERIES, LEAD ACID - NON SPILLABLE	2893	1.45	N
ZZ00812200	8/1/2019	532537	BATTERIES, LEAD/ACID-WET	814	0.41	N
ZZ00812200	8/1/2019	366538	IWE 830 POLYMER	377	0.19	N
ZZ00812200	8/1/2019	366538	IWE 830 POLYMER	186	0.09	N
ZZ00812200	8/1/2019	532647	SOILS, PETROLEUM	160	0.08	N
ZZ00812200	8/1/2019	592769	OILS, WATER	475	0.24	N
ZZ00812200	8/1/2019	592769	OILS, WATER	190	0.10	N
ZZ00812200	8/1/2019	592769	OILS, WATER	509	0.25	N
ZZ00812200	8/1/2019	592769	OILS, WATER	298	0.15	N
ZZ00812200	8/1/2019	713449	DEBRIS, INDIUM PHOSPHIDE	206	0.10	N
ZZ00812200	8/1/2019	713449	DEBRIS, INDIUM PHOSPHIDE	94	0.05	N
ZZ00812200	8/1/2019	713449	DEBRIS, INDIUM PHOSPHIDE	97	0.05	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
ZZ00812200	8/1/2019	713449	DEBRIS, INDIUM PHOSPHIDE	104	0.05	N
ZZ00812200	8/1/2019	713444	MIXED BATTERIES (UNIVERSAL-WASTE BAT)	490	0.25	N
ZZ00812200	8/1/2019	592227	USED OIL, FLUOROCARBONS, PERFLUORINATED	513	0.26	N
ZZ00812200	8/1/2019	592227	USED OIL, FLUOROCARBONS, PERFLUORINATED	449	0.22	N
0113179	8/1/2019	DecantGsolve470	Decant Gensolve 470	22	0.01	N
013488131FLE	8/2/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
ZZ00812072	8/3/2019	529928	SLUDGE, CALCIUM FLUORIDE	18860	9.43	N
001508830VES	8/5/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42140	21.07	Y
012831724FLE	8/5/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
0113180	8/5/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00812080	8/6/2019	529928	SLUDGE, CALCIUM FLUORIDE	14340	7.17	N
0113181	8/6/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013488132FLE	8/7/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
013488133FLE	8/8/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113182	8/8/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00812073	8/9/2019	529928	SLUDGE, CALCIUM FLUORIDE	15880	7.94	N
012831713FLE	8/9/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
ZZ00812081	8/12/2019	529928	SLUDGE, CALCIUM FLUORIDE	16000	8.00	N
0113183	8/12/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013488134FLE	8/13/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113184	8/13/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001508831VES	8/15/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42780	21.39	Y
ZZ00812074	8/16/2019	529928	SLUDGE, CALCIUM FLUORIDE	14640	7.32	N
0113185	8/16/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001508864VES	8/19/2019	483253	SOLVENT, GENERAL-MIXED	40120	20.06	Y
ZZ00812082	8/19/2019	529928	SLUDGE, CALCIUM FLUORIDE	14880	7.44	N



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012831714FLE	8/19/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
013488135FLE	8/19/2019	DECANT PBR-40	Decant Drum PBR 40	22	0.01	Y
0113186	8/19/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
012827727FLE	8/20/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	5	0.00	Y
019447876JJJ	8/21/2019	7919597	WXSCH4200SNDF R	1547	0.77	Y
0113187	8/21/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001508832VES	8/22/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42580	21.29	Y
012831725FLE	8/23/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
0113189	8/23/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00812130	8/24/2019	529928	SLUDGE, CALCIUM FLUORIDE	15600	7.80	N
ZZ00812139	8/26/2019	529928	SLUDGE, CALCIUM FLUORIDE	14140	7.07	N
013488136FLE	8/26/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113190	8/26/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
0113191	8/27/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012831715FLE	8/28/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
013488137FLE	8/28/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113192	8/28/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001508833VES	8/29/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41360	20.68	Y
001508922VES	8/29/2019	549398	CONCENTRATED COPPER WASTE (CCW) - MAINT.	1529	0.76	Y
001508922VES	8/29/2019	549398	CONCENTRATED COPPER WASTE (CCW) - MAINT.	2745	1.37	Y
001508922VES	8/29/2019	549398	CONCENTRATED COPPER WASTE (CCW) - MAINT.	2696	1.35	Y
ZZ00812138	8/29/2019	529928	SLUDGE, CALCIUM FLUORIDE	15320	7.66	N
ZZ00812137	8/30/2019	529928	SLUDGE, CALCIUM FLUORIDE	8060	4.03	N
0113194	8/30/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00812131	9/2/2019	529928	SLUDGE, CALCIUM FLUORIDE	17020	8.51	N
013488138FLE	9/2/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y



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0113193	9/2/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
012827728FLE	9/3/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	50	0.03	Y
0113195	9/3/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
0113196	9/4/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00812075	9/5/2019	529928	SLUDGE, CALCIUM FLUORIDE	15260	7.63	N
013587351FLE	9/5/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113197	9/5/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012831716FLE	9/6/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
0113198	9/6/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001508845VES	9/9/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42080	21.04	Y
ZZ00812132	9/9/2019	529928	SLUDGE, CALCIUM FLUORIDE	16520	8.26	N
013587352FLE	9/9/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113199	9/9/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
012708133FLE	9/10/2019	DEC CLK-222	Decant Drum CLK-222,corrosive	5	0.00	Y
013587353FLE	9/10/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
0113200	9/10/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
1244010	9/11/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00812118	9/12/2019	529928	SLUDGE, CALCIUM FLUORIDE	16440	8.22	N
012708155FLE	9/12/2019	DEC CLK-222	Decant Drum CLK-222,corrosive	5	0.00	Y
012827729FLE	9/13/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	40	0.02	Y
013587354FLE	9/13/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244011	9/13/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001508846VES	9/16/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42900	21.45	Y
ZZ00812133	9/16/2019	529928	SLUDGE, CALCIUM FLUORIDE	15640	7.82	N
012827730FLE	9/16/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012831717FLE	9/16/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
013587355FLE	9/16/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y

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1244012	9/16/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
019447877JJK	9/18/2019	7919597	WXSCH4200SNDF R	1444	0.72	Y
1244013	9/18/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001508865VES	9/19/2019	483253	SOLVENT, GENERAL-MIXED	39140	19.57	Y
001508928VES	9/19/2019	256683	CLEANSORB COLUMNS	765	0.38	Y
ZZ00812119	9/19/2019	529928	SLUDGE, CALCIUM FLUORIDE	16280	8.14	N
013587356FLE	9/19/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244014	9/19/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012827731FLE	9/20/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
ZZ00812120	9/21/2019	529928	SLUDGE, CALCIUM FLUORIDE	15120	7.56	N
011248258FLE	9/23/2019	DECANCMPCLEANB G	Decant Drum CMP Cleaner BG1	10	0.01	Y
012831719FLE	9/23/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
013587357FLE	9/23/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244016	9/23/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001508847VES	9/24/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42160	21.08	Y
ZZ00812135	9/24/2019	529928	SLUDGE, CALCIUM FLUORIDE	13860	6.93	N
1244017	9/24/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
1244018	9/25/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013587358FLE	9/26/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244019	9/26/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
012831720FLE	9/27/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244020	9/27/2019	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00812134	9/28/2019	529928	SLUDGE, CALCIUM FLUORIDE	17520	8.76	N
013209568FLE	9/30/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	30	0.02	Y
013587359FLE	9/30/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244021	9/30/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
1244022	10/1/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00812136	10/2/2019	529928	SLUDGE, CALCIUM FLUORIDE	15400	7.70	N

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013587360 FLE	10/2/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244023	10/2/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001508848 VES	10/3/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41800	20.90	Y
013216951 FLE	10/3/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
013587644 FLE	10/4/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244024	10/4/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013216952 FLE	10/4/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
ZZ00812088	10/5/2019	529928	SLUDGE, CALCIUM FLUORIDE	16840	8.42	N
001508866 VES	10/7/2019	483253	SOLVENT, GENERAL-MIXED	39780	19.89	Y
013216996 FLE	10/7/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
013587645 FLE	10/7/2019	DECANT PBR-40	Decant Drum PBR 40	22	0.01	Y
013488139 FLE	10/7/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244025	10/7/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013216953 FLE	10/7/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
1244026	10/8/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00812089	10/9/2019	529928	SLUDGE, CALCIUM FLUORIDE	17460	8.73	N
013216997 FLE	10/9/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013216954 FLE	10/9/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
001508851 VES	10/10/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41640	20.82	Y
013587646 FLE	10/10/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244027	10/10/2019	DecantGsolve470	Decant Gensolve 470	11	0.01	N
1244028	10/11/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013216955 FLE	10/11/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
ZZ00812121	10/12/2019	529928	SLUDGE, CALCIUM FLUORIDE	16560	8.28	N
013216998 FLE	10/14/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013587647 FLE	10/14/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
013488140 FLE	10/14/2019	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244047	10/14/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N

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013216956 FLE	10/14/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
ZZ00812091	10/15/2019	529928	SLUDGE, CALCIUM FLUORIDE	16600	8.30	N
1244048	10/15/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013216999 FLE	10/16/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
013587648 FLE	10/16/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244049	10/16/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013216957 FLE	10/16/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
019447878 JJK	10/16/2019	7919597	WXSCH4200SNDF R	1692	0.85	Y
1244050	10/17/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
1244052	10/18/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013216958 FLE	10/18/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
ZZ00812123	10/19/2019	529928	SLUDGE, CALCIUM FLUORIDE	14320	7.16	N
ZZ00812092	10/21/2019	529928	SLUDGE, CALCIUM FLUORIDE	15840	7.92	N
001508852 VES	10/21/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42320	21.16	Y
013209578 FLE	10/21/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244051	10/21/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013216959 FLE	10/21/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
013217000 FLE	10/22/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
1244053	10/22/2019	DecantGsolve470	Decant Gensolve 470	22	0.01	N
013216960 FLE	10/22/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
013209579 FLE	10/23/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
013488141 FLE	10/23/2019	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
ZZ00812036	10/24/2019	252532	LIQUID ANALYTICAL WASTE	76	0.04	N
001508673 VES	10/24/2019	385814	ARSENIC & PHOS DEBRIS, HAZ W/ OIL	262	0.13	Y
ZZ00812036	10/24/2019	460876	CAPACITORS	436	0.22	N
ZZ00812036	10/24/2019	460876	CAPACITORS	697	0.35	N
ZZ00812036	10/24/2019	460876	CAPACITORS	853	0.43	N
ZZ00812036	10/24/2019	460876	CAPACITORS	694	0.35	N
ZZ00812036	10/24/2019	460876	CAPACITORS	810	0.41	N
ZZ00812036	10/24/2019	460876	CAPACITORS	492	0.25	N

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001508673 VES	10/24/2019	586713	DILUTE MIXED PARATHERM AND IPA	329	0.16	Y
ZZ00812036	10/24/2019	442912	LAMPS, MERCURY	11	0.01	N
ZZ00812036	10/24/2019	442912	LAMPS, MERCURY	364	0.18	N
ZZ00812036	10/24/2019	442912	LAMPS, MERCURY	141	0.07	N
ZZ00812036	10/24/2019	442912	LAMPS, MERCURY	132	0.07	N
001508673 VES	10/24/2019	586713	DILUTE MIXED PARATHERM AND IPA	311	0.16	Y
ZZ00812036	10/24/2019	532530	USED OIL	141	0.07	N
ZZ00812093	10/24/2019	529928	SLUDGE, CALCIUM FLUORIDE	16660	8.33	N
ZZ00812036	10/24/2019	713446	DEBRIS W/DIESEL FUEL FLASH PT >140F	59	0.03	N
ZZ00812036	10/24/2019	442694	BATTERIES, LEAD ACID - NON SPILLABLE	2033	1.02	N
ZZ00812036	10/24/2019	532535	BATTERIES, LITHIUM METAL	154	0.08	N
ZZ00812036	10/24/2019	532526	SLUDGE, ION EXCHANGE	449	0.22	N
ZZ00812036	10/24/2019	699340	USED OIL, POLYALKYLENE GLYCOL	320	0.16	N
ZZ00812036	10/24/2019	713449	DEBRIS, INDIUM PHOSPHIDE	98	0.05	N
ZZ00812036	10/24/2019	713449	DEBRIS, INDIUM PHOSPHIDE	218	0.11	N
ZZ00812036	10/24/2019	713449	DEBRIS, INDIUM PHOSPHIDE	94	0.05	N
ZZ00812036	10/24/2019	713449	DEBRIS, INDIUM PHOSPHIDE	99	0.05	N
001508674 VES	10/24/2019	256683	ROS CYLINDER SPENT RESIN FROM CLEANSORB	189	0.09	Y
ZZ00812036	10/24/2019	36772	BATTERIES, LITHIUM ION	105	0.05	N
ZZ00812036	10/24/2019	713444	MIXED BATTERIES (UNIVERSAL-WASTE BAT)	488	0.24	N
ZZ00812036	10/24/2019	366522	NICKEL METAL HYDRIDE BATTERIES - UW	94	0.05	N
ZZ00812036	10/24/2019	592227	USED OIL, FLUOROCARBONS PERFLUORINATED	434	0.22	N
ZZ00812036	10/24/2019	592332	ELECTRONIC EQUIPMENT & COMPUTER MONITORS	521	0.26	N
ZZ00812036	10/24/2019	592332	ELECTRONIC EQUIPMENT & COMPUTER MONITORS	566	0.28	N

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ZZ00812036	10/24/2019	592332	ELECTRONIC EQUIPMENT & COMPUTER MONITORS	414	0.21	N
001508673 VES	10/24/2019	442983	REPEATING LABPACK	94	0.05	Y
001508673 VES	10/24/2019	533335	DEBRIS, SOLVENT-HAZARDOUS	68	0.03	Y
001508673 VES	10/24/2019	533335	DEBRIS, SOLVENT-HAZARDOUS	118	0.06	Y
001508673 VES	10/24/2019	533335	DEBRIS, SOLVENT-HAZARDOUS	120	0.06	Y
001508673 VES	10/24/2019	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	308	0.15	Y
001508673 VES	10/24/2019	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	374	0.19	Y
001508673 VES	10/24/2019	713453	HMDS DEBRIS	60	0.03	Y
001508673 VES	10/24/2019	202100	IPA CONTAMINATED WIPES	449	0.22	Y
001508673 VES	10/24/2019	202100	IPA CONTAMINATED WIPES	518	0.26	Y
001508673 VES	10/24/2019	202100	IPA CONTAMINATED WIPES	476	0.24	Y
001508673 VES	10/24/2019	202100	IPA CONTAMINATED WIPES	400	0.20	Y
001508673 VES	10/24/2019	202100	IPA CONTAMINATED WIPES	505	0.25	Y
001508673 VES	10/24/2019	442923	BROKEN MERCURY LIGHT BULBS	23	0.01	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	151	0.08	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	158	0.08	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	122	0.06	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	146	0.07	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	153	0.08	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	161	0.08	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	147	0.07	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	179	0.09	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	268	0.13	Y
001508673 VES	10/24/2019	442913	DEBRIS, ARSENIC	164	0.08	Y
001508673 VES	10/24/2019	366524	AEROSOL CANS	72	0.04	Y
001508673 VES	10/24/2019	693403	SOLVENTS, SPIN ON GLASS	260	0.13	Y



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001508673 VES	10/24/2019	691900	DEBRIS, HOUSE VACUUM	199	0.10	Y
001508673 VES	10/24/2019	692557	CYLINDERS, COMPRESSED GASES	12	0.01	Y
001508673 VES	10/24/2019	692557	CYLINDERS, COMPRESSED GASES	48	0.02	Y
001508673 VES	10/24/2019	399825	EDT PARTS	149	0.07	Y
001508673 VES	10/24/2019	713454	CCW FILTERS, WIPES, ABSORBENTS, PPE	113	0.06	Y
1244054	10/24/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013216961 FLE	10/24/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
013217001 FLE	10/25/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244055	10/25/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013216962 FLE	10/25/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
ZZ00812105	10/28/2019	529928	SLUDGE, CALCIUM FLUORIDE	16240	8.12	N
001508853 VES	10/28/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42540	21.27	Y
013209580 FLE	10/28/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
013217002 FLE	10/28/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244056	10/28/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013216964 FLE	10/28/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
013217003 FLE	10/29/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244057	10/29/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00812104	10/30/2019	529928	SLUDGE, CALCIUM FLUORIDE	16900	8.45	N
001508623 VES	10/30/2019	448115	SOLVENT, GENERAL FAB 11S	40340	20.17	Y
1244058	10/30/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013216965 FLE	10/30/2019	DECANT OPD4262	Decant OPD4262	11	0.01	Y
019447879 JJK	10/30/2019	7919597	WXSCH4200SNDF R	1596	0.80	Y
013209581 FLE	10/31/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244059	10/31/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013216966 FLE	10/31/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
013217004 FLE	11/1/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y

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w013488142 FLE	11/1/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244115	11/1/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00812094	11/4/2019	529928	SLUDGE, CALCIUM FLUORIDE	16340	8.17	N
013209608 FLE	11/4/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
013217005 FLE	11/4/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244116	11/4/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
013216967 FLE	11/4/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
ZZ00812124	11/5/2019	529928	SLUDGE, CALCIUM FLUORIDE	15560	7.78	N
001508661 VES	11/6/2019	448115	SOLVENT, GENERAL FAB 11S	40440	20.22	Y
013209569 FLE	11/6/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244117	11/6/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013216968 FLE	11/6/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
013211158 FLE	11/6/2019	DECANT PK-HUZ	Decant PK-HUZ	93	0.05	Y
013209570 FLE	11/7/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013209609 FLE	11/7/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244118	11/7/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00812126	11/8/2019	529928	SLUDGE, CALCIUM FLUORIDE	16620	8.31	N
001508854 VES	11/8/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42980	21.49	Y
013216969 FLE	11/8/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
ZZ00812095	11/11/2019	529928	SLUDGE, CALCIUM FLUORIDE	15280	7.64	N
013209571 FLE	11/11/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013209610 FLE	11/11/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
013488143 FLE	11/11/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244119	11/11/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
013216970 FLE	11/11/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
001508662 VES	11/12/2019	448115	SOLVENT, GENERAL FAB 11S	39500	19.75	Y
013209611 FLE	11/12/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
012708156 FLE	11/12/2019	DEC CLK-222	Decant Drum CLK-222,corrosive	5	0.00	Y



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1244120	11/12/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001508664 VES	11/12/2019	549398	Corrosive Liquid, Acidic, Inorganic	24280	12.14	Y
013209572 FLE	11/13/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
012708157 FLE	11/13/2019	DEC CLK-222	Decant Drum CLK-222,corrosive	5	0.00	Y
013211023 FLE	11/13/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
ZZ00812127	11/14/2019	529928	SLUDGE, CALCIUM FLUORIDE	15740	7.87	N
001508855 VES	11/14/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41080	20.54	Y
1244121	11/14/2019	DecantGsolve470	Decant Gensolve 470	22	0.01	N
013211024 FLE	11/15/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
ZZ00812128	11/16/2019	529928	SLUDGE, CALCIUM FLUORIDE	16320	8.16	N
013209573 FLE	11/18/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
1244122	11/18/2019	DecantGsolve470	Decant Gensolve 470	33	0.02	N
013211025 FLE	11/18/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
ZZ00812096	11/19/2019	529928	SLUDGE, CALCIUM FLUORIDE	16100	8.05	N
013209574 FLE	11/19/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013209612 FLE	11/19/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
1244123	11/19/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013211026 FLE	11/19/2019	Decant OPD4262	Decant OPD4262	33	0.02	Y
013211203 FLE	11/20/2019	DECANT HCL37%	Decant HCl37%	76	0.04	Y
013488144 FLE	11/20/2019	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
013211159 FLE	11/20/2019	Decant PK-HUZ	Decant PK-HUZ	31	0.02	Y
013211204 FLE	11/21/2019	Decant HCl37%	Decant HCl37%	76	0.04	Y
001508856 VES	11/21/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	36420	18.21	Y
1244124	11/21/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013211027 FLE	11/21/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
014162515 FLE	11/22/2019	DECANT HF 100:1	Decant HF 100:1	15	0.01	Y
ZZ00812097	11/23/2019	529928	SLUDGE, CALCIUM FLUORIDE	17200	8.60	N
013211205 FLE	11/25/2019	DECANT HCL37%	Decant HCl37%	76	0.04	Y
013209575 FLE	11/25/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
013209614 FLE	11/25/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244125	11/25/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
013211028 FLE	11/25/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
013209576 FLE	11/26/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244126	11/26/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013211029 FLE	11/26/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
019447880 JJK	11/26/2019	7919597	WXSCH4200SNDF R	1581	0.79	Y
ZZ00812098	11/27/2019	529928	SLUDGE, CALCIUM FLUORIDE	16280	8.14	N
013488145 FLE	11/27/2019	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244127	11/27/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00812099	11/30/2019	529928	SLUDGE, CALCIUM FLUORIDE	16860	8.43	N
013211206 FLE	12/2/2019	DECANT HCL37%	Decant HCl37%	152	0.08	Y
001508949 VES	12/2/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41860	20.93	Y
013209577 FLE	12/2/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	30	0.02	Y
013210922 FLE	12/2/2019	Decant PBR-40	Decant Drum PBR 40	22	0.01	Y
1244128	12/2/2019	DECANTGSOLVE470	Decant Gensolve 470	44	0.02	N
013211030 FLE	12/2/2019	DECANT OPD4262	Decant OPD4262	99	0.05	Y
013210923 FLE	12/3/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244129	12/3/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109294	12/4/2019	529928	SLUDGE, CALCIUM FLUORIDE	16340	8.17	N
013211031 FLE	12/4/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
013211207 FLE	12/5/2019	DECANT HCL37%	Decant HCl37%	76	0.04	Y
001508867 VES	12/5/2019	483253	SOLVENT, GENERAL-MIXED	38320	19.16	Y
013210907 FLE	12/5/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244197	12/5/2019	DecantGsolve470	Decant Gensolve 470	33	0.02	N
013211032 FLE	12/5/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
ZZ00109293	12/7/2019	529928	SLUDGE, CALCIUM FLUORIDE	15960	7.98	N
013211208 FLE	12/9/2019	DECANT HCL37%	Decant HCl37%	76	0.04	Y
ZZ00109292	12/9/2019	529928	SLUDGE, CALCIUM FLUORIDE	15860	7.93	N

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001508950 VES	12/9/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41480	20.74	Y
013210908 FLE	12/9/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013210924 FLE	12/9/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
013488146 FLE	12/9/2019	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244198	12/9/2019	DECANTGSOLVE470	Decant Gensolve 470	44	0.02	N
013211033 FLE	12/9/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
013211209 FLE	12/11/2019	DECANT HCL37%	Decant HCl37%	76	0.04	Y
013210909 FLE	12/11/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
1244199	12/11/2019	DecantGsolve470	Decant Gensolve 470	11	0.01	N
013211034 FLE	12/11/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
ZZ00109291	12/12/2019	529928	SLUDGE, CALCIUM FLUORIDE	16520	8.26	N
1244200	12/12/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013211035 FLE	12/13/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
001508959 VES	12/16/2019	256683	CLEANSORB COLUMNS	765	0.38	Y
ZZ00812100	12/16/2019	529928	SLUDGE, CALCIUM FLUORIDE	16240	8.12	N
013210910 FLE	12/16/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013210925 FLE	12/16/2019	Decant PBR-40	Decant Drum PBR 40	22	0.01	Y
013488147 FLE	12/16/2019	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244201	12/16/2019	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
013211036 FLE	12/16/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
013211210 FLE	12/16/2019	DECANT HCL37%	Decant HCl37%	76	0.04	Y
013211211 FLE	12/17/2019	DECANT HCL37%	Decant HCl37%	38	0.02	Y
ZZ00109290	12/17/2019	529928	SLUDGE, CALCIUM FLUORIDE	16920	8.46	N
013210911 FLE	12/17/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
1244202	12/17/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013211037 FLE	12/17/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
1244203	12/18/2019	DecantGsolve470	Decant Gensolve 470	11	0.01	N
001508951 VES	12/19/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42040	21.02	Y
1244204	12/19/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
1244204	12/19/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013211212 FLE	12/20/2019	DECANT HCL37%	Decant HCl37%	38	0.02	Y
ZZ00812129	12/20/2019	529928	SLUDGE, CALCIUM FLUORIDE	17260	8.63	N
013210912 FLE	12/20/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013210926 FLE	12/20/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
1244205	12/20/2019	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
013211038 FLE	12/20/2019	DECANT OPD4262	Decant OPD4262	66	0.03	Y
013211160 FLE	12/20/2019	DECANT PK-HUZ	Decant PK-HUZ	31	0.02	Y
013211213 FLE	12/23/2019	DECANT HCL37%	Decant HCl37%	38	0.02	Y
013210913 FLE	12/23/2019	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
013211039 FLE	12/23/2019	Decant OPD4262	Decant OPD4262	33	0.02	Y
1244206	12/23/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
013211214 FLE	12/24/2019	DECANT HCL37%	Decant HCl37%	38	0.02	Y
013211040 FLE	12/24/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
1244207	12/24/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109289	12/24/2019	529928	SLUDGE, CALCIUM FLUORIDE	16940	8.47	N
013211218 FLE	12/26/2019	DECANT AD10	AD10 Decant Totes	16	0.01	Y
013210914 FLE	12/26/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013210927 FLE	12/26/2019	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
013211215 FLE	12/26/2019	DECANT HCL37%	Decant HCl37%	76	0.04	Y
013211041 FLE	12/26/2019	DECANT OPD4262	Decant OPD4262	33	0.02	Y
1244208	12/26/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109288	12/27/2019	529928	SLUDGE, CALCIUM FLUORIDE	17660	8.83	N
013211216 FLE	12/30/2019	DECANT HCL37%	Decant HCl37%	114	0.06	Y
013211043 FLE	12/30/2019	DECANT OPD4262	Decant OPD4262	99	0.05	Y
ZZ00109269	12/30/2019	529928	SLUDGE, CALCIUM FLUORIDE	17960	8.98	N
001508952 VES	12/30/2019	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42700	21.35	Y
013210915 FLE	12/30/2019	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
013210928 FLE	12/30/2019	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
014158946 FLE	12/30/2019	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
1244209	12/30/2019	DecantGsolve470	Decant Gensolve 470	33	0.02	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
013211217 FLE	12/31/2019	DECANT HCL37%	Decant HCl37%	38	0.02	Y
1244440	12/31/2019	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N

## ENDORSEMENT PH3

### 2021A pH MONITORING

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

MONITORING REQUIREMENT: See above.

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

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

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

As noted in 40 CFR 401.17

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

## CONTINUOUS pH MONITORING REPORT

July 2019 – August 2019

Intel Corporation

## Site Outfall Daily Minimum and Maximum pH Report

Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)
7/1/2019	6.41	0.00	9.96	0.00	8/1/2019	6.32	0.00	9.30	0.00
7/2/2019	6.45	0.00	9.58	0.00	8/2/2019	6.37	0.00	8.48	0.00
7/3/2019	6.75	0.00	9.07	0.00	8/3/2019	6.39	0.00	9.30	0.00
7/4/2019	6.59	0.00	9.36	0.00	8/4/2019	6.50	0.00	10.53	0.00
7/5/2019	6.70	0.00	10.32	0.00	8/5/2019	6.49	0.00	10.34	0.00
7/6/2019	6.43	0.00	10.67	0.00	8/6/2019	6.38	0.00	10.11	0.00
7/7/2019	6.06	0.00	10.35	0.00	8/7/2019	6.38	0.00	9.45	0.00
7/8/2019	6.12	0.00	9.84	0.00	8/8/2019	6.31	0.00	7.47	0.00
7/9/2019	6.68	0.00	9.77	0.00	8/9/2019	6.26	0.00	8.95	0.00
7/10/2019	6.45	0.00	9.09	0.00	8/10/2019	6.13	0.00	9.12	0.00
7/11/2019	6.42	0.00	8.89	0.00	8/11/2019	6.42	0.00	9.05	0.00
7/12/2019	6.22	0.00	8.72	0.00	8/12/2019	6.54	0.00	9.59	0.00
7/13/2019	5.88	0.00	8.70	0.00	8/13/2019	6.45	0.00	9.02	0.00
7/14/2019	6.17	0.00	9.56	0.00	8/14/2019	6.28	0.00	9.84	0.00
7/15/2019	6.37	0.00	9.30	0.00	8/15/2019	6.51	0.00	10.01	0.00
7/16/2019	6.31	0.00	8.93	0.00	8/16/2019	6.49	0.00	9.71	0.00
7/17/2019	6.13	0.00	8.44	0.00	8/17/2019	6.59	0.00	9.58	0.00
7/18/2019	6.18	0.00	9.45	0.00	8/18/2019	6.40	0.00	9.28	0.00
7/19/2019	6.22	0.00	8.93	0.00	8/19/2019	6.29	0.00	10.04	0.00
7/20/2019	6.36	0.00	9.45	0.00	8/20/2019	6.36	0.00	10.53	0.00
7/21/2019	6.25	0.00	10.46	0.00	8/21/2019	6.57	0.00	10.52	0.00
7/22/2019	6.32	0.00	8.89	0.00	8/22/2019	6.64	0.00	10.50	0.00
7/23/2019	6.25	0.00	9.50	0.00	8/23/2019	6.67	0.00	10.19	0.00
7/24/2019	6.01	0.00	10.29	0.00	8/24/2019	6.61	0.00	9.68	0.00
7/25/2019	6.36	0.00	8.96	0.00	8/25/2019	6.57	0.00	9.99	0.00
7/26/2019	6.34	0.00	8.97	0.00	8/26/2019	6.64	0.00	10.31	0.00
7/27/2019	6.31	0.00	10.01	0.00	8/27/2019	6.46	0.00	9.92	0.00
7/28/2019	6.45	0.00	9.23	0.00	8/28/2019	6.41	0.00	10.04	0.00
7/29/2019	6.32	0.00	9.35	0.00	8/29/2019	6.37	0.00	9.97	0.00
7/30/2019	6.28	0.00	9.55	0.00	8/30/2019	6.65	0.00	9.77	0.00
7/31/2019	6.48	0.00	10.18	0.00	8/31/2019	6.57	0.00	9.56	0.00
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0



# Intel Semi-Annual Wastewater Report | H2 2019

September 2019 – October 2019

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)
9/1/2019	6.56	0.00	9.85	0.00	10/1/2019	6.40	0.00	7.89	0.00
9/2/2019	6.51	0.00	9.61	0.00	10/2/2019	6.26	0.00	9.75	0.00
9/3/2019	6.53	0.00	9.55	0.00	10/3/2019	6.32	0.00	8.56	0.00
9/4/2019	6.52	0.00	9.58	0.00	10/4/2019	6.10	0.00	9.07	0.00
9/5/2019	6.40	0.00	9.97	0.00	10/5/2019	6.09	0.00	9.58	0.00
9/6/2019	6.39	0.00	9.33	0.00	10/6/2019	6.21	0.00	8.43	0.00
9/7/2019	6.24	0.00	9.96	0.00	10/7/2019	5.98	0.00	9.54	0.00
9/8/2019	6.17	0.00	9.27	0.00	10/8/2019	6.25	0.00	9.16	0.00
9/9/2019	6.12	0.00	9.10	0.00	10/9/2019	6.21	0.00	9.57	0.00
9/10/2019	6.24	0.00	9.53	0.00	10/10/2019	6.11	0.00	8.81	0.00
9/11/2019	6.45	0.00	9.95	0.00	10/11/2019	6.18	0.00	9.48	0.00
9/12/2019	6.47	0.00	10.34	0.00	10/12/2019	6.21	0.00	9.97	0.00
9/13/2019	6.38	0.00	10.35	0.00	10/13/2019	6.24	0.00	9.55	0.00
9/14/2019	6.47	0.00	10.49	0.00	10/14/2019	6.27	0.00	9.64	0.00
9/15/2019	6.63	0.00	10.10	0.00	10/15/2019	6.23	0.00	9.41	0.00
9/16/2019	6.50	0.00	10.52	0.00	10/16/2019	6.24	0.00	9.35	0.00
9/17/2019	6.41	0.00	9.34	0.00	10/17/2019	6.25	0.00	9.66	0.00
9/18/2019	6.34	0.00	8.59	0.00	10/18/2019	6.25	0.00	9.14	0.00
9/19/2019	6.31	0.00	9.99	0.00	10/19/2019	6.21	0.00	9.90	0.00
9/20/2019	6.12	0.00	9.16	0.00	10/20/2019	6.10	0.00	8.85	0.00
9/21/2019	6.09	0.00	9.48	0.00	10/21/2019	6.06	0.00	9.20	0.00
9/22/2019	6.05	0.00	8.06	0.00	10/22/2019	6.20	0.00	9.04	0.00
9/23/2019	5.87	0.00	7.11	0.00	10/23/2019	5.97	0.00	9.57	0.00
9/24/2019	5.84	0.00	6.32	0.00	10/24/2019	6.22	0.00	8.93	0.00
9/25/2019	5.83	0.00	10.16	0.00	10/25/2019	6.47	0.00	9.23	0.00
9/26/2019	6.35	0.00	9.59	0.00	10/26/2019	6.56	0.00	9.21	0.00
9/27/2019	6.35	0.00	9.45	0.00	10/27/2019	6.53	0.00	9.33	0.00
9/28/2019	6.35	0.00	9.77	0.00	10/28/2019	6.18	0.00	9.40	0.00
9/29/2019	6.39	0.00	9.89	0.00	10/29/2019	6.32	0.00	9.91	0.00
9/30/2019	6.38	0.00	9.81	0.00	10/30/2019	6.11	0.00	9.41	0.00
					10/31/2019	6.30	0.00	9.50	0.00
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0



## November 2019 – December 2019

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (max)
11/1/2019	6.31	0.00	9.42	0.00	12/1/2019	5.92	0.00	8.72	0.00
11/2/2019	6.10	0.00	9.33	0.00	12/2/2019	5.86	0.00	9.25	0.00
11/3/2019	6.04	0.00	9.77	0.00	12/3/2019	6.05	0.00	8.51	0.00
11/4/2019	6.03	0.00	9.34	0.00	12/4/2019	5.96	0.00	7.96	0.00
11/5/2019	5.97	0.00	9.54	0.00	12/5/2019	6.03	0.00	9.17	0.00
11/6/2019	5.97	0.00	8.95	0.00	12/6/2019	6.11	0.00	9.09	0.00
11/7/2019	5.98	0.00	9.46	0.00	12/7/2019	6.05	0.00	9.28	0.00
11/8/2019	6.01	0.00	9.44	0.00	12/8/2019	6.00	0.00	9.47	0.00
11/9/2019	5.93	0.00	9.60	0.00	12/9/2019	5.87	0.00	8.92	0.00
11/10/2019	5.85	0.00	9.19	0.00	12/10/2019	5.81	0.00	8.96	0.00
11/11/2019	5.85	0.00	8.83	0.00	12/11/2019	6.03	0.00	8.88	0.00
11/12/2019	6.05	0.00	9.73	0.00	12/12/2019	6.06	0.00	8.30	0.00
11/13/2019	5.96	0.00	9.63	0.00	12/13/2019	6.01	0.00	9.24	0.00
11/14/2019	6.00	0.00	9.42	0.00	12/14/2019	5.97	0.00	9.41	0.00
11/15/2019	5.95	0.00	9.36	0.00	12/15/2019	6.02	0.00	7.01	0.00
11/16/2019	5.91	0.00	9.44	0.00	12/16/2019	6.02	0.00	8.15	0.00
11/17/2019	5.87	0.00	9.70	0.00	12/17/2019	6.12	0.00	8.55	0.00
11/18/2019	5.92	0.00	9.88	0.00	12/18/2019	6.10	0.00	9.18	0.00
11/19/2019	5.98	0.00	9.46	0.00	12/19/2019	5.85	0.00	9.07	0.00
11/20/2019	5.96	0.00	9.09	0.00	12/20/2019	6.00	0.00	9.02	0.00
11/21/2019	5.86	0.00	9.48	0.00	12/21/2019	5.78	0.00	8.98	0.00
11/22/2019	6.07	0.00	8.98	0.00	12/22/2019	6.09	0.00	9.24	0.00
11/23/2019	5.97	0.00	7.74	0.00	12/23/2019	6.12	0.00	8.81	0.00
11/24/2019	5.71	0.00	8.87	0.00	12/24/2019	6.10	0.00	9.44	0.00
11/25/2019	5.87	0.00	8.65	0.00	12/25/2019	6.08	0.00	8.81	0.00
11/26/2019	5.87	0.00	9.47	0.00	12/26/2019	5.98	0.00	8.77	0.00
11/27/2019	5.78	0.00	8.73	0.00	12/27/2019	6.10	0.00	8.76	0.00
11/28/2019	5.70	0.00	8.82	0.00	12/28/2019	6.18	0.00	9.29	0.00
11/29/2019	5.93	0.00	9.54	0.00	12/29/2019	5.96	0.00	9.11	0.00
11/30/2019	5.85	0.00	8.38	0.00	12/30/2019	5.55	0.00	9.46	0.00
					12/31/2019	6.06	0.00	8.30	0.00
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

# Intel Semi-Annual Wastewater Report | H2 2019

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## ENDORSEMENT RC

### REPORTING CERTIFICATION

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

MONITORING REQUIREMENT: None

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

\* \* \* \* \*

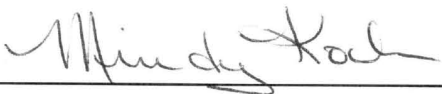
### REPORTING CERTIFICATION

Facility Name: Intel Corporation

Permit Number: 2021A

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

(Signature)

  
\_\_\_\_\_  
Authorized Representative

1/29/2020  
\_\_\_\_\_  
Date

## 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).

**Semi-annual sampling for H2 2019 was conducted from October 21<sup>st</sup> through October 24<sup>th</sup>, 2019. Semi-annual sampling results are attached for reference (Attachment D).**

**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
Indium	0.30 mg/l
Gallium	See Schedule 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 10<sup>th</sup> 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 8/05/2019, 9/03/2019, 10/03/2019, 11/07/2019, 12/9/2019, and 1/07/2019 which included Ammonia data collected during the second half of 2019 (H2 2019). A summary of Intel NM's analytical method accuracy checks performed during H2 2019 is included on the next page.**

**Semi-annual sampling for Platinum, Indium and Gallium was conducted from October 21<sup>st</sup> through October 24<sup>th</sup>, 2019. Semi-annual sampling results are attached (Attachment D) 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)
7/3/2019	9.1
7/10/2019	10.1
7/18/2019	10.4
7/24/2019	10.4
7/31/2019	9.2
8/7/2019	10.6
8/14/2019	9.7
8/21/2019	9.3
8/29/2019	10.6
9/4/2019	9.7
9/11/2019	9.9
9/19/2019	9.8
9/25/2019	9.3
10/2/2019	10.3
10/9/2019	9.9
10/16/2019	9.9
10/23/2019	9.5
11/1/2019	10.0
11/7/2019	9.3
11/13/2019	10.0
11/20/2019	10.0
11/27/2019	9.3
12/4/2019	9.2
12/11/2019	9.8
12/19/2019	9.4
12/26/2019	10.5

**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. The TOMP is included as Attachment B.**

**TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT**

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

Facility Name: Intel Corporation

Permit No.: 2021A

Date: 1/29/2020

Signature:



Authorized Representative

Title:

NM Site Corporate Services  
Manager



**ENDORSEMENT TR6**

**TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN**

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

**MONITORING REQUIREMENT:** None required by the Permittee.

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

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

## **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 2019 - December 2019

### Water Use Reduction Projects:

With Intel's growth in 2019, 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 Rate:

The Intel NM site had a non-hazardous chemical waste recycling rate of 78% for H2 2019. The recycling rate for the second half of the year went up by 7% from H1 2019. Intel New Mexico has a site wide recycling rate goal of 90% that encompasses all waste sources. Efforts in building up to that 90% rate includes rehabbing the site's composting program with re-education to onsite personnel for what waste is appropriate for composting locations available around the site. Currently we compost coffee grounds and we are working our way to reintroduce food waste from our kitchen into composting efforts. Our goal is to re-send compost through ABCWUA's vendor when our composting contamination is eliminated from the site.

Calcium fluoride (CaF) sludge, a byproduct of Intel NM's hydrofluoric waste treatment operations, accounts for approximately 97% 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 2019 amounted to approximately 480 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.

## **ENDORSEMENT TR6**

### **TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN**

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

**MONITORING REQUIREMENT:** None required by the Permittee.

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

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

**Attachments**

**Attachment A - Intel NM Grease Trap Pumping Manifests – H2 2019**

**Attachment B - Intel NM TOMP – October 2019**

**Attachment C - Weekly Cerium Sampling Reports**

**Attachment D - Semi-Annual Monitoring Analytical Results**



## **ATTACHMENT A**

### **Intel NM Grease Trap Pumping Manifest – H2 2019**

RRS Grease Trap Pump

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
**68532**

## WASTE PRODUCER

PRODUCER'S NAME INTERBLS PHONE \_\_\_\_\_ APPROX. DATE OF  
ADDRESS 4100 Sara Rd GALLONS 150 COLLECTION 7/12/19  
CITY Rio Rancho STATE NM ZIP \_\_\_\_\_ WASTE TYPE:  
☐ SAND OR GRIT ☒ GREASE  
RESPON. PERSON X [Signature] DATE 7/12/19 ☐ OTHER - DESCRIBE \_\_\_\_\_

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 7/12/19 PERMIT NO. Portable

## DISPOSAL SITE DATE STAMP

## HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>538808</u>	<u>7/12/19</u>	

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



Inspection Date 7-12-19 Service Date 7-12-19 Technician/Company ISAAC ESCALANTE AAA Pumping		Comments
RRS Grease Trap		
Depth of grease trap from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	6 Inches	
Depth of Solids	3 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	MOSTLY RICE. I SPOKE WITH BEN RICH AWAY. THIS IS A TEECH DUMPING ISSUE. TEECH NEEDS TO DUMP MORE INTO FOOD WASTE BAG, NOT RINSE DOWN DRAIN.
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	MAY BE GETTING THICKER OIL FROM RICE AND FOOD??
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	

D.T.M. # 68532A

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

Inspection Date	7-12-19	Service Date	7-12-19	Technician/Company	ISAAC ESCOBAR / AAA Pumping
RR5 Grease Trap				Comments	
Depth of grease trap from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches				
Depth of FOG (fats, oils, grease)	1/16 Inches				
Depth of Solids	1/2 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				



D.T.M. # 168532

27

RRS-TRAP B-1 OFFICE  
Rio Rancho Grease Removal Device Report

Inspection Date 7-12-19	Service Date 7-12-19	Technician/Company ISAC EL ANTE	Comments
RRS Grease Trap			
Depth of grease trap from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/6 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the 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		

D.T.M. # 168532

28

RR5-TRAP FROM COFFEE AREA, N/C

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of grease trap from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/2 Inches	COFFEE GROUND	
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		



# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
**59626**

## WASTE PRODUCER

PRODUCER'S NAME TAHEL DRB PHONE \_\_\_\_\_ APPROX. \_\_\_\_\_ DATE OF \_\_\_\_\_  
ADDRESS 4100 SARA Rd GALLONS 156 COLLECTION 7/26/19  
CITY Albq STATE NM ZIP \_\_\_\_\_ WASTE TYPE: \_\_\_\_\_  
RESPON. PERSON X [Signature] DATE 7/26/19 ☐ SAND OR GRIT ☒ GREASE  
☐ OTHER - DESCRIBE \_\_\_\_\_

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 7/26/19 PERMIT NO. 305046679

## DISPOSAL SITE DATE STAMP

## HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>034237</u>	<u>7/26/19</u>	

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

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
*Trap by Pot Wash <input checked="" type="checkbox"/> 20"			
Trap Under Table <input type="checkbox"/> 20"			
Trap by Office <input type="checkbox"/> 15"			
Trap by Coffee Area, NW <input type="checkbox"/> 15"	Inches		
Depth of FOG (fats, oils, grease)	7 Inches		
Depth of Solids	3 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		

HAD THE COOK BRUCE JONES LOOK AT FEED ON BUTTER. BRUCE SAID THEY JUST GOT THEIR REGULAR DISHWASHER BACK TODAY, BUT THEY DID TELL EVERYONE ABOUT FEED DOWN DEAIN.



D.T.M. #59626

# 26 Rio Rancho Grease Removal Device Report

Inspection Date <u>7-26-19</u> Service Date <u>7-26-19</u> Technician/Company <u>ISAAC ESCALANTE AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash <input type="checkbox"/> , 20"	-	
*Trap Under Table <input checked="" type="checkbox"/> , 20"	-	
Trap by Office <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	<u>3/32</u> Inches	
Depth of Solids	<u>1/4</u> 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:	<u>50</u>	
Location where grease was disposed of:	<u>AAA Pumping TRAD-RECYCLED</u>	

D.T.M. # 59626

## 27 Rio Rancho Grease Removal Device Report

Inspection Date <u>7-26-19</u> Service Date <u>7-26-19</u> Technician/Company <u>ISAAC ESCOBAR</u>		Comments
<b>RS5 Grease Trap</b>		
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)	0 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



D.T.M. #591626

## 28 Rio Rancho Grease Removal Device Report

Inspection Date 7-26-18		Service Date 7-26-18		Technician/Company ISAAC ESTALANTE / 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				1/4 Inches	COFFEE
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 TRAD - RECYCLED	

RR5 GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
**68886**

## WASTE PRODUCER

PRODUCER'S NAME	Intel RLS	PHONE		APPROX. GALLONS	150	DATE OF COLLECTION	8/9/19
ADDRESS	4100 Santa Rd			WASTE TYPE:			
CITY	Los Alamos	STATE	NM	ZIP			
RESPON. PERSON	X	DATE	8/9/19	<input type="checkbox"/> SAND OR GRIT	<input type="checkbox"/> GREASE	<input type="checkbox"/> OTHER - DESCRIBE	

## WASTE TRANSPORTER

TRUCK DRIVERS SIGNATURE	X	DATE	8/9/19	PERMIT NO.	PA411
DISPOSAL SITE DATE STAMP		HAULER'S BILLING INFORMATION			

AAA Pumping Service  
8-9-19

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
39196	8/9/19	

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



Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash <input checked="" type="checkbox"/> 20"			
Trap Under Table <input type="checkbox"/> 20"			
Trap by Office <input type="checkbox"/> 15"			
Trap by Coffee Area, NW <input type="checkbox"/> 15"	Inches		
Depth of FOG (fats, oils, grease)	6 Inches		
Depth of Solids	3 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	REPAIRING YARD - RECYCLED	

D.T.M. # 68886

# Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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	



D.T.M. # 68886

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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)	1/2 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	

D.T.M. #168886

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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)	1/32 Inches		
Depth of Solids	1/2 Inches	COFFEE	
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 TRUCK - RECYCLED	



RR5 Grease Trap Pump

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
**69036**

## WASTE PRODUCER

PRODUCER'S NAME Hotel AKS PHONE \_\_\_\_\_ APPROX. DATE OF  
ADDRESS 4100 Santa Rd GALLONS 150 COLLECTION 8/23/19  
CITY Albuquerque STATE NM ZIP \_\_\_\_\_ WASTE TYPE:  
☐ SAND OR GRIT ☒ GREASE  
RESPON. PERSON X [Signature] DATE 8/23/19 ☐ OTHER - DESCRIBE \_\_\_\_\_

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 8/23/19 PERMIT NO. 201  
DISPOSAL SITE DATE STAMP \_\_\_\_\_ HAULER'S BILLING INFORMATION \_\_\_\_\_

AAA Pumping Service  
8-23-19

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
39391	8/23/19	

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

# Disposal Trip Manifest 69036 Rio Rancho Grease Removal Device Report - 25

Inspection Date <u>8-23-19</u> Service Date <u>8-23-19</u> Technician/Company <u>Billy Harsco/AAA Plumbing</u>		Comments
* <u>RR5 Grease Trap</u>		
Depth of water column in grease trap :		
Trap by Pot Wash <input checked="" type="checkbox"/> 20"		
Trap Under Table <input type="checkbox"/> 20"		
Trap by Office <input type="checkbox"/> 15"		
Trap by Coffee Area, NW <input type="checkbox"/> 15"	Inches	
Depth of FOG (fats, oils, grease)	6 Inches	
Depth of Solids	3 Inches	RICE
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



D. J. M. # 69036

## Rio Rancho Grease Removal Device Report - 26

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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"			
Depth of FOG (fats, oils, grease)	1/8 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the 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	

D.T.M. # 69036

# Rio Rancho Grease Removal Device Report - 27

Inspection Date <u>8-23-19</u>		Service Date <u>8-23-19</u>		Technician/Company <u>BILLY HARSO / AAA PUMPING</u>	
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)				$\frac{1}{32}$ Inches	
Depth of Solids				$\frac{1}{8}$ 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	



D.T.M. # 69036

## Rio Rancho Grease Removal Device Report - 28

Inspection Date	Service Date	Technician/Company	Comments
8-23-19	8-23-19	BILL HARSO	AAA Pumping
<b>RR5 Grease Trap</b>			
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 - RECYCLED		

RISGrease Trap Pump

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
**68832**

## WASTE PRODUCER

PRODUCER'S NAME INTL PDS PHONE \_\_\_\_\_ APPROX. DATE OF  
ADDRESS 4100 Garcia Rd GALLONS 150 COLLECTION 9/6/19  
CITY Rio Rancho STATE NM ZIP \_\_\_\_\_ WASTE TYPE:  
☐ SAND OR GRIT ☒ GREASE  
RESPON. PERSON X [Signature] DATE 9/6/19 ☐ OTHER - DESCRIBE \_\_\_\_\_

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 9/6/19 PERMIT NO. portable

## DISPOSAL SITE DATE STAMP

## HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>039767</u>	<u>9/10/19</u>	

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



# Disposal Trip Manifest # 68832 Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash <input checked="" type="checkbox"/> 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	3 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-Recycled		

RICI - TALKED TO NEW KITCHEN MANAGER

D.T.M. # 68832

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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 1/32 Inches		
Depth of Solids	1 3/32 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 - Recycle		



D.T.M. # 68832

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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	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		

D-1.M. # 68832

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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"	0 Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/4 Inches	Coffee	
Is the accumulated FOG and solids occupying greater than 25% of the 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		



RRS GREASE TRAP Pump

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
**68676**

## WASTE PRODUCER

PRODUCER'S NAME Fateel RRS PHONE \_\_\_\_\_ DATE OF  
ADDRESS 4100 Santa Rd GALLONS 150 COLLECTION 9/20/19  
CITY Rio Rancho STATE NM ZIP \_\_\_\_\_ WASTE TYPE:  
☐ SAND OR GRIT ☒ GREASE  
RESPON. PERSON X [Signature] DATE 9/20/19 ☐ OTHER - DESCRIBE \_\_\_\_\_

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 9/20/19 PERMIT NO. \_\_\_\_\_

## DISPOSAL SITE DATE STAMP

## HAULER'S BILLING INFORMATION

AAA Pumping Service  
9-20-19

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT

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

DISPOSAL TRIP MANIFEST # 68676  
25

# Rio Rancho Grease Removal Device Report

Inspection Date <u>9-20-19</u> Service Date <u>9-20-19</u> Technician/Company <u>BILLY HARSTO</u>		Comments
<b>R5 Grease Trap</b>		
Depth of water column in grease trap :		
Trap by Pot Wash [ <input checked="" type="checkbox"/> , 20"		
Trap Under Table [ <input type="checkbox"/> , 20"		
Trap by Office [ <input type="checkbox"/> , 15"		
Trap by Coffee Area, NW [ <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	6 Inches	
Depth of Solids	3 Inches	RICE
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

Comments AAA Pumping

D.T.M. # 108676

# Z6 Rio Rancho Grease Removal Device Report

Inspection Date <u>9-20-19</u> Service Date <u>9-20-19</u> Technician/Company <u>Billy Harsco</u>		Comments
RR5 Grease Trap		
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 1/8 Inches	
Depth of Solids	1 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

AAA Pumping



D.T.M. # 68676

## 27 Rio Rancho Grease Removal Device Report

Inspection Date <u>9-20-19</u>	Service Date <u>9-20-19</u>	Technician/Company <u>Billy Harso</u>	Comments
<b>RR5 Grease Trap</b>			
Depth of water column in grease trap :			
Trap by Pot Wash <input type="checkbox"/> , 20"	-		
Trap Under Table <input type="checkbox"/> , 20"	-		
Trap by Office <input checked="" type="checkbox"/> , 15"	-		
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches		
Depth of FOG (fats, oils, grease)	<u>1/32</u> Inches		
Depth of Solids	<u>0</u> Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Prior to opening is odor from the grease trap present 10' or greater?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Are the access covers in need of repair?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
FOG Passing by grease trap?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Does grease trap need trap repair?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Are there signs the grease trap walls may be deteriorating?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Are there signs the grease trap may be leaking?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Was the grease trap pressure washed?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Is there any leakage under the baffle wall?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Was all grease removed from walls, ledges and ridges?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Total Gallons pumped out:	<u>20</u>		
Location where grease was disposed of:	<u>AAA PUMPING - YARD - RECYCLED</u>		

D. T. M. # 686716

# 28 Rio Rancho Grease Removal Device Report

Inspection Date <u>9-20-19</u> Service Date <u>9-20-19</u> Technician/Company <u>Belt HARSO</u>		Comments
<b>RR5 Grease Trap</b>		
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 [✓], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	COFFEE
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



RRS GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
**70284**

## WASTE PRODUCER

PRODUCER'S NAME	Hotel RRS	PHONE		APPROX. GALLONS	150	DATE OF COLLECTION	10/24/19
ADDRESS	4100 Santa Rd			WASTE TYPE:			
CITY	Rio Rancho	STATE	NM	ZIP			
				<input type="checkbox"/> SAND OR GRIT		<input checked="" type="checkbox"/> GREASE	
				<input type="checkbox"/> OTHER - DESCRIBE			

RESPON. PERSON	X	DATE	10/24/19
WASTE TRANSPORTER			

TRUCK DRIVER'S SIGNATURE	X	DATE	10/24/19	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.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

DISPOSAL TRAP MANIFEST #170284  
25 Rio Rancho Grease Removal Device Report

Inspection Date <u>10-4-19</u>	Service Date <u>10-4-19</u>	Technician/Company <u>Billy Harsco AAA Pumping</u>	Comments
<b>RR5 Grease Trap</b>			
Depth of water column in grease trap :			
Trap by Pot Wash [ <input checked="" type="checkbox"/> , 20"	-		
Trap Under Table [ <input type="checkbox"/> , 20"	-		
Trap by Office [ <input type="checkbox"/> , 15"	-		
Trap by Coffee Area, NW [ <input type="checkbox"/> , 15"	Inches		
Depth of FOG (fats, oils, grease)	6 Inches	Oil	
Depth of Solids	3 Inches	RICE	
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 TRAP - RECYCLED	



D.T.M. # 72284

## 26 Rio Rancho Grease Removal Device Report

Inspection Date <u>10-4-19</u>	Service Date <u>10-4-19</u>	Technician/Company <u>Billy Hase</u>	Comments
<b>RR5 Grease Trap</b>			
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)	<u>1/32</u> inches		
Depth of Solids	<u>1/4</u> inches		
Is the accumulated FOG and solids occupying greater than 25% of the 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:	<u>50</u>		
Location where grease was disposed of:	<u>AAA</u>	<u>PUMPING YARD - RECYCLED</u>	



D.T.M. #70284

## 27 Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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 3/8 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	AAA REMAINING

D. I. M. #7B284

28 Rio Rancho Grease Removal Device Report

411C

Inspection Date <u>10-4-19</u> Service Date <u>10-4-19</u> Technician/Company <u>AAA Pumping</u>		Comments
RR5 Grease Trap		
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	CAFFEINE
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 TRAP - RECYCLED



RIS Grease Trap Pump

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
70224

## WASTE PRODUCER

PRODUCER'S NAME Hotel RRS

PHONE

APPROX. GALLONS

DATE OF

COLLECTION

ADDRESS

4100 Santa Fe

WASTE TYPE:

CITY

Rio Rancho

STATE

NM

ZIP

☐ SAND OR GRIT

☒ GREASE

☐ OTHER - DESCRIBE

RESPON. PERSON X

[Signature]

DATE

10/18/19

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X

[Signature]

DATE

10/18/19

PERMIT NO.

PL

## 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 <u>10-18-19</u>	Service Date <u>10-18-19</u>	Technician/Company <u>Billy Harso</u>	Comments
<b>RR5 Grease Trap</b>			
Depth of water column in grease trap :			
Trap by Pot Wash [ <input checked="" type="checkbox"/> , 20"			
Trap Under Table [ <input type="checkbox"/> , 20"			
Trap by Office [ <input type="checkbox"/> , 15"			
Trap by Coffee Area, NW [ <input type="checkbox"/> , 15"	Inches		
Depth of FOG (fats, oils, grease)	6 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		



D.T.M. #70224

## Rio Rancho Grease Removal Device Report

Inspection Date <u>6-18-19</u>	Service Date <u>10-18-19</u>	Technician/Company <u>Billy HARSO</u>	Comments
<b>RR5 Grease Trap</b>			
Depth of water column in grease trap :			
Trap by Pot Wash <input type="checkbox"/> , 20"	-		
Trap Under Table <input checked="" type="checkbox"/> , 20"	-		
Trap by Office <input type="checkbox"/> , 15"	-		
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches		
Depth of FOG (fats, oils, grease)	<u>1/6</u> Inches		
Depth of Solids	<u>1/8</u> Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes <input checked="" type="radio"/> No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes <input checked="" type="radio"/> No		
Are the access covers in need of repair?	Yes <input checked="" type="radio"/> No		
FOG Passing by grease trap?	Yes <input checked="" type="radio"/> No		
Does grease trap need trap repair?	Yes <input checked="" type="radio"/> No		
Are there signs the grease trap walls may be deteriorating?	Yes <input checked="" type="radio"/> No		
Are there signs the grease trap may be leaking?	Yes <input checked="" type="radio"/> No		
Was the grease trap pressure washed?	Yes <input checked="" type="radio"/> No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes <input checked="" type="radio"/> No		
Is there any leakage under the baffle wall?	Yes <input checked="" type="radio"/> No		
Was all grease removed from walls, ledges and ridges?	Yes <input checked="" type="radio"/> No		
Total Gallons pumped out:	<u>50</u>		
Location where grease was disposed of:	<u>AAA PUMPING YARD--RECYCLED</u>		

D.T.M. # 172224

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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 [ ], 15"	Inches		
Depth of FOG (fats, oils, grease)	1 3/2 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 - Recycled		



D.T.M. # 10224

## Rio Rancho Grease Removal Device Report

Inspection Date <u>10-18-19</u>	Service Date <u>10-18-19</u>	Technician/Company <u>Billy AARST</u>	Comments <u>AAA Pumping</u>
<b>RR5 Grease Trap</b>			
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 [✓], 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		



RR5 GREASE TRAP Pump

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
70483

## WASTE PRODUCER

PRODUCER'S NAME	Hotel RLS	PHONE		APPROX. GALLONS	150	DATE OF COLLECTION	11/11/19
ADDRESS	4100 Santa Rd			WASTE TYPE:			
CITY	Kio Ranch	STATE	NM	ZIP			
RESPON. PERSON	X	DATE	11/11/19	<input type="checkbox"/> SAND OR GRIT	<input checked="" type="checkbox"/> GREASE	<input type="checkbox"/> OTHER - DESCRIBE	

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE	X	DATE	11/11/19	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.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

RRS Grease Trap		Comments
Inspection Date	Service Date	Technician/Company
11-1-19	11-1-19	Billy Harris AAA Reports
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 [ ], 15"	Inches	
Depth of FOG (fats, oils, grease)	5 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	Removal Yard-RECYCLED

D.T.M. # 776483

## Rio Rancho Grease Removal Device Report

Inspection Date <u>11-1-19</u>	Service Date <u>11-1-19</u>	Technician/Company <u>Billy Harris / AAA Pumping</u>	Comments
<b>RR5 Grease Trap</b>			
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 [ ], 15"	Inches		
Depth of FOG (fats, oils, grease)	<u>1/8</u> Inches		
Depth of Solids	<u>1/8</u> 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:	<u>50</u>		
Location where grease was disposed of:	<u>AAA</u>	<u>Pumpin</u>	<u>YARD - RECYCLED</u>



D.T.M. # 76483

## Rio Rancho Grease Removal Device Report

Inspection Date <u>11-1-19</u> Service Date <u>11-1-19</u> Technician/Company <u>Billy HARRIS / AAA Pumping</u>		Comments
RR5 Grease Trap		
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 [ ] , 15"	Inches	
Depth of FOG (fats, oils, grease)	1/32 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 - RECTIFIED



D.T.M. # 76483

## Rio Rancho Grease Removal Device Report

Inspection Date <u>11-1-19</u>	Service Date <u>11-1-19</u>	Technician/Company <u>BULEY HARSO/AAA Pumping</u>	Comments
<b>RR5 Grease Trap</b>			
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		COFFEE
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		

RRS GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
70546

## WASTE PRODUCER

PRODUCER'S NAME Intel RRS APPROX. GALLONS 150 DATE OF COLLECTION 11/15/19  
ADDRESS 4100 Santa Rd WASTE TYPE: ☐ SAND OR GRIT ☒ GREASE  
CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X DATE 11/15/19 OTHER - DESCRIBE

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE Billy Davis DATE 11/15/19 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.

DISPOSAL TRIP MANIFEST #70546

## Rio Rancho Grease Removal Device Report

Inspection Date <u>11-15-19</u>	Service Date <u>11-15-19</u>	Technician/Company <u>BILLY HARJO</u>	Comments <u>AAA Pumping</u>
<b>RR5 Grease Trap</b>			
Depth of water column in grease trap :			
Trap by Pot Wash <input checked="" type="checkbox"/> , 20"	-		
Trap Under Table <input type="checkbox"/> , 20"	-		
Trap by Office <input type="checkbox"/> , 15"	-		
Trap by Coffee Area, NW <input type="checkbox"/> , 15"		Inches	
Depth of FOG (fats, oils, grease)	<u>5</u>	Inches	
Depth of Solids	<u>3</u>	Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	<u>Yes/No</u>		
Prior to opening is odor from the grease trap present 10' or greater?	<u>Yes/No</u>		
Are the access covers in need of repair?	<u>Yes/No</u>		
FOG Passing by grease trap?	<u>Yes/No</u>		
Does grease trap need trap repair?	<u>Yes/No</u>		
Are there signs the grease trap walls may be deteriorating?	<u>Yes/No</u>		
Are there signs the grease trap may be leaking?	<u>Yes/No</u>		
Was the grease trap pressure washed?	<u>Yes/No</u>		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	<u>Yes/No</u>		
Is there any leakage under the baffle wall?	<u>Yes/No</u>		
Was all grease removed from walls, ledges and ridges?	<u>Yes/No</u>		
Total Gallons pumped out:	<u>50</u>		
Location where grease was disposed of:	<u>AAA Pumping YARD - RECYCLED</u>		



D.T.M. # 90546

## Rio Rancho Grease Removal Device Report

Inspection Date <u>11-15-19</u>	Service Date <u>11-15-19</u>	Technician/Company <u>BILLY HARJO</u>	Comments
RR5 Grease Trap			
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 [ ], 15"			
Depth of FOG (fats, oils, grease)			
Inches			
1/8 Inches			
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			



D.T.W. # 70546

## Rio Rancho Grease Removal Device Report

Inspection Date <u>11-15-19</u>	Service Date <u>11-15-19</u>	Technician/Company <u>BILLY HARSH</u>	Comments
<b>RR5 Grease Trap</b>			
Depth of water column in grease trap :			
Trap by Pot Wash <input type="checkbox"/> , 20"	-		
Trap Under Table <input type="checkbox"/> , 20"	-		
Trap by Office <input checked="" type="checkbox"/> , 15"	-		
Trap by Coffee Area, NW <input type="checkbox"/> , 15"		Inches	
Depth of FOG (fats, oils, grease)	<u>1/32</u> Inches		
Depth of Solids	<u>1/8</u> Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes <u>(No)</u>		
Prior to opening is odor from the grease trap present 10' or greater?	Yes <u>(No)</u>		
Are the access covers in need of repair?	Yes <u>(No)</u>		
FOG Passing by grease trap?	Yes <u>(No)</u>		
Does grease trap need trap repair?	Yes <u>(No)</u>		
Are there signs the grease trap walls may be deteriorating?	Yes <u>(No)</u>		
Are there signs the grease trap may be leaking?	Yes <u>(No)</u>		
Was the grease trap pressure washed?	Yes <u>(No)</u>		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes <u>(No)</u>		
Is there any leakage under the baffle wall?	Yes <u>(No)</u>		
Was all grease removed from walls, ledges and ridges?	Yes <u>(No)</u>		
Total Gallons pumped out:	<u>20</u>		
Location where grease was disposed of:	<u>AAA Pumping Yard - RECYCLED</u>		

D.T.M. # 70546

## Rio Rancho Grease Removal Device Report

Inspection Date <u>11-15-19</u>	Service Date <u>11-15-19</u>	Technician/Company <u>Billy Harjo / AAA Pumping</u>	Comments
<b>RR5 Grease Trap</b>			
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 [✓], 15"			
Depth of FOG (fats, oils, grease)			
Inches			
9			
Depth of Solids			
Inches			
1/2			
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			

RR5 GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
70581

## WASTE PRODUCER

PRODUCER'S NAME Intel HRS PHONE \_\_\_\_\_ APPROX. GALLONS 150 DATE OF COLLECTION 12/6/19

ADDRESS 4100 Santa Rd WASTE TYPE: ☐ SAND OR GRIT ☒ GREASE

CITY Rio Rancho STATE NM ZIP \_\_\_\_\_ ☐ OTHER - DESCRIBE \_\_\_\_\_

RESPON. PERSON X [Signature] DATE 12/6/19

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 12/6/19 PERMIT NO. PL

## 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.



# DISPOSAL TRIP MANIFEST #175581 Rio Rancho Grease Removal Device Report

RR5 Grease Trap		Comments
Inspection Date <u>12-6-19</u>	Service Date <u>12-6-19</u>	Technician/Company <u>BILLY HARSTY/AAA Pumping</u>
Depth of water column in grease trap :		
Trap by Pot Wash [ <input checked="" type="checkbox"/> , 20"	-	
Trap Under Table [ <input type="checkbox"/> , 20"	-	
Trap by Office [ <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW [ <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	<u>6</u> Inches	
Depth of Solids	<u>2</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	<u>Yes/No</u>	
Prior to opening is odor from the grease trap present 10' or greater?	<u>Yes/No</u>	
Are the access covers in need of repair?	<u>Yes/No</u>	
FOG Passing by grease trap?	<u>Yes/No</u>	
Does grease trap need trap repair?	<u>Yes/No</u>	
Are there signs the grease trap walls may be deteriorating?	<u>Yes/No</u>	
Are there signs the grease trap may be leaking?	<u>Yes/No</u>	
Was the grease trap pressure washed?	<u>Yes/No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	<u>Yes/No</u>	
Is there any leakage under the baffle wall?	<u>Yes/No</u>	
Was all grease removed from walls, ledges and ridges?	<u>Yes/No</u>	
Total Gallons pumped out:	<u>50</u>	
Location where grease was disposed of:	<u>AAA Pumping - YARD - RECYCLED</u>	



D.T.M. # 7B581

## Rio Rancho Grease Removal Device Report

Inspection Date <u>12-6-19</u> Service Date <u>12-6-19</u> Technician/Company <u>Billy Hase AAA Remant</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [ ], 20"	-	
Trap Under Table [ <input checked="" type="checkbox"/> , 20"	-	
Trap by Office [ ], 15"	-	
Trap by Coffee Area, NW [ ], 15"	Inches	
Depth of FOG (fats, oils, grease)	<u>1/8</u> Inches	
Depth of Solids	<u>1/4</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/ <u>No</u>	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/ <u>No</u>	
Are the access covers in need of repair?	Yes/ <u>No</u>	
FOG Passing by grease trap?	Yes/ <u>No</u>	
Does grease trap need trap repair?	Yes/ <u>No</u>	
Are there signs the grease trap walls may be deteriorating?	Yes/ <u>No</u>	
Are there signs the grease trap may be leaking?	Yes/ <u>No</u>	
Was the grease trap pressure washed?	Yes/ <u>No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/ <u>No</u>	
Is there any leakage under the baffle wall?	Yes/ <u>No</u>	
Was all grease removed from walls, ledges and ridges?	Yes/ <u>No</u>	
Total Gallons pumped out:	<u>50</u>	
Location where grease was disposed of:	<u>AAA Pumping Yard - Recycled</u>	

D.T.M. # 78581

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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 [ ], 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		



D.T.M. #76581

## Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
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 [✓], 15"	Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/2 Inches	COFFEE	
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	

1135 GREASE TRIP Pump

# AAA PUMPING SERVICE, INC.

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

DISPOSAL  
TRIP MANIFEST  
71615

## WASTE PRODUCER

PRODUCER'S NAME	Michael KRS	PHONE		APPROX. GALLONS	150	DATE OF COLLECTION	12/20/19
ADDRESS	4100 Santa Rd			WASTE TYPE:			
CITY	Albuquerque	STATE	NM	ZIP			
RESPON. PERSON	X	DATE	12/20/19	<input type="checkbox"/> SAND OR GRIT	<input checked="" type="checkbox"/> GREASE	<input type="checkbox"/> OTHER - DESCRIBE	

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE	X	DATE	12/20/19	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.



Inspection Date 12-20-19	Service Date 12-20-19	Technician/Company BILLY HARDA/AAA Pumping
RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash <input checked="" type="checkbox"/> , 20"	-	
Trap Under Table <input type="checkbox"/> , 20"	-	
Trap by Office <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	6 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	

D.T.M. # 71615

## Rio Rancho Grease Removal Device Report

Inspection Date <u>12-20-19</u>	Service Date <u>12-20-19</u>	Technician/Company <u>Billy Harso / AAA Pumping</u>	Comments
<b>RS Grease Trap</b>			
Depth of water column in grease trap :			
Trap by Pot Wash [ ], 20"			
Trap Under Table [ <input checked="" type="checkbox"/> , 20"			
Trap by Office [ ], 15"			
Trap by Coffee Area, NW [ ], 15"			
Depth of FOG (fats, oils, grease)	<del>7/8</del> Inches		
Depth of Solids	<del>1/8</del> Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	1/4 Inches		
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 REMAINING YARD - RECYCLED		



D.T.M. # 91615

## Rio Rancho Grease Removal Device Report

Inspection Date <u>12-20-19</u> Service Date <u>12-20-19</u> Technician/Company <u>Billy Harso / AAA Plumbing</u>		Comments
RR5 Grease Trap		
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 RemPine YARD - RECYCLED	

D.T.M. # 71615

## Rio Rancho Grease Removal Device Report

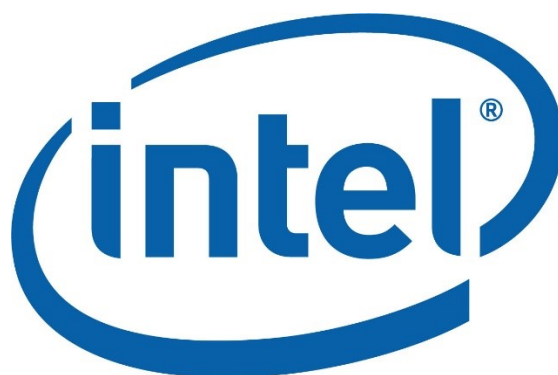
Inspection Date <u>12-20-19</u> Service Date <u>12-20-19</u> Technician/Company <u>BILLY HARRO/AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [ ], 20"	-	
Trap Under Table [ ], 20"	-	
Trap by Office [ ], 15"	-	
Trap by Coffee Area, NW [✓], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	COFFEE
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	ARMING YARD - RECYCLED



## **ATTACHMENT B**

### **Intel NM TOMP – October 2019 Update**

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



Submitted to:

Albuquerque Bernalillo County  
Water Utility Authority  
Industrial Waste Pretreatment Section

Prepared By:

Intel Corporation  
4100 Sara Road  
Rio Rancho, New Mexico 87124

2019 Revision

## **Table of Contents**

- 1.0 Introduction
- 2.0 Chemical Use Approval and Control
- 3.0 Waste Management Practices
- 4.0 Spill Prevention and Clean Up

## Introduction

This 2019 update of the Intel New Mexico site Toxic Organic Management Plan (TOMP) is prepared to meet the requirements of Wastewater Industrial Discharge Permit 2021A. Per Endorsement TR6, the Permittee is required to submit a TOMP to the Industrial Waste Engineer **every two years (years 1, 3, and 5 of the permit period)**, and **when changes to the plan occur**. The Plan shall identify all toxic organics used onsite, quantities used and stored at the facility, procedures followed to prevent discharge and spills of these materials to the sanitary sewer, and the method of disposal used in place of discharge to the sanitary sewer.

Intel Corporation is located at 4100 Sara Road, Rio Rancho, New Mexico 87124 and operates a 300 millimeter wafer semiconductor development and manufacturing facility. The site also maintains various utility, office and support buildings.

Semiconductor development and manufacturing processes use various organic compounds, generally classified as resists, cleaners/solvents, and etchants. The U.S. EPA has promulgated wastewater effluent guidelines for semiconductor manufacturing in 40 CFR 469 Subpart A, which includes a list of Total Toxic Organics (TTOs) for the semiconductor industry. None of the following TTOs listed in 40 CFR 469 Subpart A are used in Intel's manufacturing process in Rio Rancho:

- 1,2,4 Trichlorobenzene chloroform
- 1,2 Dichlorobenzene
- 1,3 Dichlorobenzene
- 1,4 Dichlorobenzene ethylbenzene
- 1,1,1 Trichloroethane methylene chloride naphthalene
- 2 Nitrophenol phenol bis (2-ethylhexyl) phthalate tetrachloroethylene toluene trichloroethylene
- 2 Chlorophenol
- 2,4 Dichlorophenol
- 4 Nitrophenol pentachlorophenol di-n-butyl phthalate anthracene
- 1,2 Diphenylhydrazine isophorone butyl benzyl pthalte
- 1,1 Dichloroethylene
- 2,4,6 Trichlorophenol carbon tetrachloride
- 1,2 Dichloroethane
- 1,1,2 Trichloroethane dichlorobromomethane

### 1.0 Chemical Use Approval and Control

Intel maintains a chemical approval process that serves to prevent unauthorized introduction of chemicals at the NM site, thereby keeping them out of wastewater discharged to the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). Every chemical used on site must be approved by site EHS prior to use onsite. Chemicals used in the manufacturing process, labs, and for factory/facilities operations and maintenance must be approved by a site Environmental Engineer and



Industrial Hygienist. Chemicals used at the site by contractor workers must be approved by a site Environmental Engineer. Part of the approval process includes a review of the chemical constituents against various lists of toxic and hazardous chemicals regulated by the EPA, the New Mexico Environment Department (NMED), ABCWUA, and other applicable agencies.

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

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

## **2.0 Waste Management Practices**

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

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

The first five waste streams listed above are treated prior to being discharged to the sanitary sewer. The last three waste streams (6-8) are collected separately in tanks and shipped offsite to an EPA permitted Treatment, Storage, and Disposal Facility (TSDF) via a certified transporter.

All manufacturing and support equipment is evaluated prior to installation to determine the volume and nature of liquid waste, if any. Installations are then made with drain system hookups to the appropriate treatment or collection system(s) to ensure proper waste segregation. The newly-installed equipment and drain connections are inspected and documented through a formal Equipment Sign-Off process prior to use.

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

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

### **3.0 Spill Prevention and Clean Up**

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

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

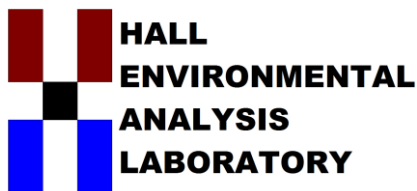
Wastes generated from all chemical spills, including organic spills, are collected and disposed of in accordance with all applicable regulations. Additionally, secondary containments in chemical docks and loading areas are designed to contain any chemical spill and prevent chemicals from entering the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



## **ATTACHMENT C**

### **Cerium Sampling Reports (June-November)**





*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

August 09, 2019

Carrie Weitz

Intel Corporation

4100 Sara Road

M/S R8-103

Rio Rancho, NM 87124

TEL: (505) 794-4912

FAX

RE: Cerium

OrderNo.: 1907263

Dear Carrie Weitz:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/3/2019 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • [info@brooksapplied.com](mailto:info@brooksapplied.com)

August 8, 2019

Hall Environmental  
ATTN: Andy Freeman  
4901 Hawkins NE, Suite D  
Albuquerque, NM 87109  
[Andy@hallenvironmental.com](mailto:Andy@hallenvironmental.com)

RE: Project HLL-NM1901

Dear Andy Freeman,

On July 11, 2019, Brooks Applied Labs (BAL) received four (4) water 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](http://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. Aside from concentration qualifiers, all data was reported without further 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,

A handwritten signature in black ink that reads 'Lauren Blaiwes'.

Lauren Blaiwes  
Project Manager  
[Lauren@brooksapplied.com](mailto: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

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

### Definition of Data Qualifiers

(Effective 9/23/09)

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

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1928051  
Client PM: Andy Freeman  
Client Project: 1907263

## Sample Information

Sample	Alias	Lab ID	Report Matrix	Type	Sampled	Received
June Cerium WW23	1907263-001A	1928051-01	Water	Sample	06/03/2019	07/11/2019
June Cerium WW24	1907263-002A	1928051-02	Water	Sample	06/10/2019	07/11/2019
June Cerium WW25	1907263-003A	1928051-03	Water	Sample	06/17/2019	07/11/2019
June Cerium WW26	1907263-004A	1928051-04	Water	Sample	06/24/2019	07/11/2019

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	07/16/2019	08/04/2019	B191915	1900959



Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1928051  
Client PM: Andy Freeman  
Client Project: 1907263

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>June Cerium WW23, 1907263-001A</b>										
1928051-01	Ce	Water	TR	76.5		0.100	1.00	µg/L	B191915	1900959
<b>June Cerium WW24, 1907263-002A</b>										
1928051-02	Ce	Water	TR	53.0		0.100	1.00	µg/L	B191915	1900959
<b>June Cerium WW25, 1907263-003A</b>										
1928051-03	Ce	Water	TR	18.2		0.100	1.00	µg/L	B191915	1900959
<b>June Cerium WW26, 1907263-004A</b>										
1928051-04	Ce	Water	TR	31.9		0.100	1.00	µg/L	B191915	1900959

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1928051  
Client PM: Andy Freeman  
Client Project: 1907263

## Accuracy & Precision Summary

Batch: B191915  
Lab Matrix: Water  
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B191915-BS1	Blank Spike, (1928035) Ce		24000	27150	µg/L	113% 75-125	
B191915-BS2	Blank Spike, (1928035) Ce		24000	26580	µg/L	111% 75-125	
B191915-DUP2	Duplicate, (1928051-02) Ce	52.95		52.20	µg/L		1% 20
B191915-MS2	Matrix Spike, (1928051-02) Ce	52.95	24000	27020	µg/L	112% 75-125	
B191915-MSD2	Matrix Spike Duplicate, (1928051-02) Ce	52.95	24000	27680	µg/L	115% 75-125	2% 20

## Method Blanks & Reporting Limits

Batch: B191915  
Matrix: Water  
Method: EPA 1638 Mod  
Analyte: Ce

Sample	Result	Units
B191915-BLK1	0.006	µg/L
B191915-BLK2	0.005	µg/L
B191915-BLK3	0.004	µg/L
B191915-BLK4	0.004	µg/L

Average: 0.005  
Limit: 0.080

MDL: 0.008  
MRL: 0.080

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1928051  
Client PM: Andy Freeman  
Client Project: 1907263

## Sample Containers

Lab ID: 1928051-01  
Sample: June Cerium WW23

Des	Container	Size
A	Client-Provided - TM	250mL

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3 (Client)

Lot  
na

P-Lot  
na

Collected: 06/03/2019  
Received: 07/11/2019  
pH  
<2  
Ship. Cont.  
Cooler -  
1928051

Lab ID: 1928051-02  
Sample: June Cerium WW24

Des	Container	Size
A	Client-Provided - TM	250mL

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3(Client)

Lot  
na

P-Lot  
na

Collected: 06/10/2019  
Received: 07/11/2019  
pH  
<2  
Ship. Cont.  
Cooler -  
1928051

Lab ID: 1928051-03  
Sample: June Cerium WW25

Des	Container	Size
A	Client-Provided - TM	250mL

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3 (Client)

Lot  
na

P-Lot  
na

Collected: 06/17/2019  
Received: 07/11/2019  
pH  
<2  
Ship. Cont.  
Cooler -  
1928051

Lab ID: 1928051-04  
Sample: June Cerium WW26

Des	Container	Size
A	Client-Provided - TM	250mL

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3 (Client)

Lot  
na

P-Lot  
na

Collected: 06/24/2019  
Received: 07/11/2019  
pH  
<2  
Ship. Cont.  
Cooler -  
1928051

**Project ID:** HLL-NM1901  
**PM:** Lauren Blaiwes



BAL Report 1928051  
**Client PM:** Andy Freeman  
**Client Project:** 1907263

## Shipping Containers

### **Cooler - 1928051**

**Received:** July 11, 2019 10:00  
**Tracking No:** 7756 8254 8506 via FedEx  
**Coolant Type:** Blue Ice  
**Temperature:** 1.1 °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





# CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

Hall Environmental Analysis Laboratory  
4901 Hawkland Report 1928051  
Albuquerque, NM 87109  
TEL: 505-345-3975  
FAX: 505-345-4107  
Website: www.hallenvironmental.com

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

				# CONTAINERS		ANALYTICAL COMMENTS
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	
1	1907263-001A	June Cerium WW23	250HDPEHN O2	Aqueous	6/3/2019 9:00:00 AM	1 CERTIUM BY 1638
2	1907263-002A	June Cerium WW24	250HDPEHN O2	Aqueous	6/10/2019 9:30:00 AM	1 CERTIUM BY 1638
3	1907263-003A	June Cerium WW25	250HDPEHN O2	Aqueous	6/17/2019 9:30:00 AM	1 CERTIUM BY 1638
4	1907263-004A	June Cerium WW26	250HDPEHN O2	Aqueous	6/24/2019 9:30:00 AM	1 CERTIUM 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:	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED:
	7/8/2019	7:40 AM		7/11/19	10:00	<input type="checkbox"/> HARD COPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT:	Standard		RUSH	Next BD	2nd BD	FOR LAB USE ONLY
						Temp of samples
						Attempt to Cool?
						Comments



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: 1907263

RcptNo: 1

Received By: Isaiah Ortiz 7/3/2019 1:02:00 PM

Completed By: Anne Thorne 7/5/2019 2:08:12 PM

Reviewed By: DAD 7/5/19

IOX

Anne Thorne

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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. 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?

Checked by:

ACOT/OS/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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.8	Good	Yes			

[www.hallenvironmental.com](http://www.hallenvironmental.com)

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

<h1>Chain-of-Custody Record</h1>				Turn-Around Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush			
Client: <u>INTEL</u>				Project Name: <u>Cerium</u>			
Mailing Address: <u>Amy Reed</u> <u>505-799</u>				Project #: <u>07103119</u>			
Phone #: <u>505-270-7400</u> email or Fax#: <u>amy.reed@intel.com</u>				Project Manager: <u>Caree Weir</u>			
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				Sampler:			
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other				On Ice: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<input checked="" type="checkbox"/> EDD (Type) <u>Normal</u>				# of Coolers: <u>1</u>			
				Cooler Temp (including CF): <u>11.1 + 0.4 (CF) 11.8 °C</u>			
Date		Time		Matrix		Sample Name	
6/3/19		0900		W		JUNE - Cerium <sup>WW23</sup>	
6/10/19		0930		W		JUNE - Cerium <sup>WW24</sup>	
6/17/19		0930		W		JUNE - Cerium <sup>WW25</sup>	
6/24/19		0930		W		JUNE - Cerium <sup>WW26</sup>	
Date:		Time:		Relinquished by:		Relinquished by:	
6/14/19		1000		<del>Heidi Johnson</del> Amy Reed		Received by: <u>TC</u> Date: <u>7/3/19</u> Time: <u>1302</u>	

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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109





18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • [info@brooksapplied.com](mailto:info@brooksapplied.com)

September 26, 2019

Hall Environmental  
ATTN: Andy Freeman  
4901 Hawkins NE, Suite D  
Albuquerque, NM 87109  
[Andy@hallenvironmental.com](mailto: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](http://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,

A handwritten signature in black ink, reading 'Lauren Blaiwes'.

Lauren Blaiwes  
Project Manager  
[Lauren@brooksapplied.com](mailto: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

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

### Definition of Data Qualifiers

(Effective 9/23/09)

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

**Project ID:** HLL-NM1901  
**PM:** Lauren Blaiwes



BAL Report 1933065  
**Client PM:** Andy Freeman  
**Client Project:** 1908441

## 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

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1933065  
Client PM: Andy Freeman  
Client Project: 1908441

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>1908441-001A, Cerium- July</b>										
1933065-01	Ce	AQ	TR	38.3		2.45	20.0	µg/L	B192347	1901161
<b>1908441-002A, Cerium- July</b>										
1933065-02	Ce	AQ	TR	253		0.122	1.00	µg/L	B192347	1901141
<b>1908441-003A, Cerium- July</b>										
1933065-03	Ce	AQ	TR	40.8		0.122	1.00	µg/L	B192347	1901141
<b>1908441-004A, Cerium- July</b>										
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		MDL: 0.010
Limit: 0.080		MRL: 0.080

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1933065  
Client PM: Andy Freeman  
Client Project: 1908441

## Sample Containers

Lab ID: 1933065-01  
Sample: 1908441-001A

Des	Container	Size	Lot	Report Matrix: AQ Sample Type: Sample Preservation	P-Lot	Collected: 07/01/2019 Received: 08/15/2019 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

Des	Container	Size	Lot	Report Matrix: AQ Sample Type: Sample Preservation	P-Lot	Collected: 07/09/2019 Received: 08/15/2019 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

Des	Container	Size	Lot	Report Matrix: AQ Sample Type: Sample Preservation	P-Lot	Collected: 07/16/2019 Received: 08/15/2019 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

Des	Container	Size	Lot	Report Matrix: AQ Sample Type: Sample Preservation	P-Lot	Collected: 07/24/2019 Received: 08/15/2019 pH	Ship. Cont.
A	Client-Provided	250 mL	n/a	1 mL HNO3 (Client)	n/a	0	Cooler 1 - 1933065

**Project ID:** HLL-NM1901  
**PM:** Lauren Blaiwes



BAL Report 1933065  
**Client PM:** Andy Freeman  
**Client Project:** 1908441

## 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



# CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

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

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

# CONTAINERS

## ANALYTICAL COMMENTS

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS
1	1908441-001A	Cerium- July	250HDPEN Aqueous	Aqueous	7/1/2019 10:00:00 AM	1 Cerium by 1638
2	1908441-002A	Cerium- July	250HDPEN Aqueous	Aqueous	7/9/2019 9:00:00 AM	1 Cerium by 1638
3	1908441-003A	Cerium- July	250HDPEN Aqueous	Aqueous	7/16/2019 10:00:00 AM	1 Cerium by 1638
4	1908441-004A	Cerium- July	250HDPEN Aqueous	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: 8/14/19	Time: 9:50
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: HARD COPY (extra cost) FAX EMAIL ONLINE					
FOR LAB USE ONLY Temp of samples C Attempt to Cool? Comments:					



# 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: ID

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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. 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 $^{\circ}\text{C}$	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#: 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:

Cerium

Project #:

Project Manager:

Carrie Weitz

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

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

Container Type and #

Preservative Type

HEAL No.

7/19/19 10am W Cerium - July

7/19/19 9am W Cerium - July

7/19/19 10am W Cerium - July

7/19/19 9am W Cerium - July

Date: 8/7/19

Relinquished by: AR Amy Reed

Time: 0700

Received by: DD

Via: courier

Date: 8/7/19

Time: 13:42

Date:

Relinquished by:

Time:

Received by:

Via:

Date:

Time:

Remarks:

Please send results to ABCWHA as well. shardeman@abcwaha.org amyreed@intel.com  
spitt@abcwaha.org +peacock@abcwaha.org

## Analysis Request

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<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
8260 (VOA)  
8270 (Semi-VOA)  
Total Coliform (Present/Absent)

Cerium

X

X

X

X



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

October 18, 2019

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

RE: Monthly Cerium

OrderNo.: 1909148

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/4/2019 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • [info@brooksapplied.com](mailto:info@brooksapplied.com)

October 17, 2019

Hall Environmental  
ATTN: Andy Freeman  
4901 Hawkins NE, Suite D  
Albuquerque, NM 87109  
[Andy@hallenvironmental.com](mailto:Andy@hallenvironmental.com)

RE: Project HLL-NM1901

Dear Andy Freeman,

On September 12, 2019, 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 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](http://brooksapplied.com).

The matrix spike and matrix spike duplicate, B192824-MS1/MSD1 and B192824-MS2-MSD2, were analyzed at a greater dilution than the B192824-DUP1/DUP2 and the source samples, to achieve recoveries within calibration.

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,

A handwritten signature in blue ink that reads 'Betty Vordahl'.

Betty Vordahl  
Project Manager  
[Betty@brooksapplied.com](mailto:Betty@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

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

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Please see narrative for explanation.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
<b>N</b>	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	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	Lab ID	Report Matrix	Type	Sampled	Received
1909148-001A	1937073-01	Water	Sample	08/06/2019	09/12/2019
1909148-002A	1937073-02	Water	Sample	08/13/2019	09/12/2019
1909148-003A	1937073-03	Water	Sample	08/20/2019	09/12/2019
1909148-004A	1937073-04	Water	Sample	08/26/2019	09/12/2019

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	10/07/2019	10/10/2019	B192824	1901295

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>1909148-001A</b>										
1937073-01	Ce	Water	TR	25.3		0.350	1.00	µg/L	B192824	1901295
<b>1909148-002A</b>										
1937073-02	Ce	Water	TR	12.4		0.350	1.00	µg/L	B192824	1901295
<b>1909148-003A</b>										
1937073-03	Ce	Water	TR	25.8		0.350	1.00	µg/L	B192824	1901295
<b>1909148-004A</b>										
1937073-04	Ce	Water	TR	20.4		0.350	1.00	µg/L	B192824	1901295



## Accuracy & Precision Summary

Batch: B192824  
Lab Matrix: Water  
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B192824-BS1	Blank Spike, (1928035) Ce		2400	2169	µg/L	90% 75-125	
B192824-DUP1	Duplicate, (1937070-01) Ce	6.616		6.507	µg/L		2% 20
B192824-MS1	Matrix Spike, (1937070-01) Ce	6.616	2400	2190	µg/L	91% 75-125	
B192824-MSD1	Matrix Spike Duplicate, (1937070-01) Ce	6.616	2400	2044	µg/L	85% 75-125	7% 20
B192824-DUP2	Duplicate, (1937073-01) Ce	25.29		29.46	µg/L		15% 20
B192824-MS2	Matrix Spike, (1937073-01) Ce	25.29	2400	2280	µg/L	94% 75-125	
B192824-MSD2	Matrix Spike Duplicate, (1937073-01) Ce	25.29	2400	2163	µg/L	89% 75-125	5% 20



## Method Blanks & Reporting Limits

**Batch:** B192824

**Matrix:** Water

**Method:** EPA 1638 Mod

**Analyte:** Ce

Sample	Result	Units
B192824-BLK1	0.0004	µg/L
B192824-BLK2	0.015	µg/L
B192824-BLK3	0.009	µg/L
B192824-BLK4	0.009	µg/L

**Average:** 0.008

**Limit:** 0.080

**MDL:** 0.028

**MRL:** 0.080





## Sample Containers

<b>Lab ID:</b> 1937073-01		<b>Report Matrix:</b> Water		<b>Collected:</b> 08/06/2019	
<b>Sample:</b> 1909148-001A		<b>Sample Type:</b> Sample		<b>Received:</b> 09/12/2019	
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>
A	Client-Provided - TM	250 mL	n/a	HNO3 (Client)	n/a
					<b>pH</b>
					<b>Ship. Cont.</b>
					<2 Cooler - 1937073
<b>Lab ID:</b> 1937073-02		<b>Report Matrix:</b> Water		<b>Collected:</b> 08/13/2019	
<b>Sample:</b> 1909148-002A		<b>Sample Type:</b> Sample		<b>Received:</b> 09/12/2019	
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>
A	Client-Provided - TM	250 mL	n/a	HNO3 (Client)	n/a
					<b>pH</b>
					<b>Ship. Cont.</b>
					<2 Cooler - 1937073
<b>Lab ID:</b> 1937073-03		<b>Report Matrix:</b> Water		<b>Collected:</b> 08/20/2019	
<b>Sample:</b> 1909148-003A		<b>Sample Type:</b> Sample		<b>Received:</b> 09/12/2019	
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>
A	Client-Provided - TM	250 mL	n/a	HNO3 (Client)	n/a
					<b>pH</b>
					<b>Ship. Cont.</b>
					<2 Cooler - 1937073
<b>Lab ID:</b> 1937073-04		<b>Report Matrix:</b> Water		<b>Collected:</b> 08/26/2019	
<b>Sample:</b> 1909148-004A		<b>Sample Type:</b> Sample		<b>Received:</b> 09/12/2019	
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>
A	Client-Provided - TM	250 mL	n/a	HNO3 (Client)	n/a
					<b>pH</b>
					<b>Ship. Cont.</b>
					<2 Cooler - 1937073

**Project ID:** HLL-NM1901  
**PM:** Lauren Blaiwes



BAL REPORT 1937073  
**Client PM:** Andy Freeman  
**Client Project:** HLL-NM1901

## Shipping Containers

### **Cooler - 1937073**

**Received:** September 12, 2019 10:20  
**Tracking No:** 776204732753 via FedEx  
**Coolant Type:** Blue Ice  
**Temperature:** 5.2 °C

**Description:** Cooler  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** IR#20

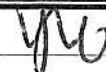
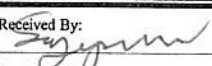
**Custody seals present?** Yes  
**Custody seals intact?** Yes  
**COC present?** Yes

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

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	1909148-001A	AUG-CER	250HDPEHN	Aqueous	8/6/2019 9:00:00 AM	1	Cerium
2	1909148-002A	AUG-CER	250HDPEHN	Aqueous	8/13/2019 9:30:00 AM	1	Cerium
3	1909148-003A	AUG-CER	250HDPEHN	Aqueous	8/20/2019 9:00:00 AM	1	Cerium
4	1909148-004A	AUG-CER	250HDPEHN	Aqueous	8/26/2019 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: 9/4/2019	Time: 4:47 PM	Received By: 	Date: 9/12/19	Time: 10:20	<b>REPORT TRANSMITTAL DESIRED:</b> <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  <b>FOR LAB USE ONLY</b>  Temp of samples _____ °C    Attempt to Cool? _____  Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
<b>TAT:</b> Standard <input checked="" type="checkbox"/> RUSH    Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						



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: 1909148

RcptNo: 1

Received By: Yazmine Garduno 9/4/2019 2:00:00 PM

Completed By: Yazmine Garduno 9/4/2019 2:54:56 PM

Reviewed By: IO

9/4/19

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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. 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: DAD 9/4/19

### 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	26.4	Good				







*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

November 06, 2019

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

RE: Cerium

OrderNo.: 1910164

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/2/2019 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • [info@brooksapplied.com](mailto:info@brooksapplied.com)

November 5, 2019

Hall Environmental  
ATTN: Andy Freeman  
4901 Hawkins NE, Suite D  
Albuquerque, NM 87109  
[Andy@hallenvironmental.com](mailto:Andy@hallenvironmental.com)

RE: Project HLL-NM1901

Dear Andy Freeman,

On October 8<sup>th</sup>, 2019, Brooks Applied Labs (BAL) received four (4) water 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.

Total Ce Quantitation by ICP-QQQ-MS

All aqueous samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. All sediment samples were digested via modified EPA Method 3050B with a mix of concentrated nitric acid, hydrochloric acid, and hydrogen peroxide. 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](http://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. Aside from concentration qualifiers, all data was reported without further 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  
Project Manager  
[Lauren@brooksapplied.com](mailto:Lauren@brooksapplied.com)

Jenna Saeedi  
Project Coordinator  
[Jenna@brooksapplied.com](mailto:Jenna@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	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.

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1941009  
Client PM: Andy Freeman  
Client Project: 1910164

## Sample Information

Sample	Alias	Lab ID	Report Matrix	Type	Sampled	Received
1910164-001A	SEP-CERIA	1941009-01	Water	Sample	09/03/2019	10/08/2019
1910164-002A	SEP-CERIA	1941009-02	Water	Sample	09/10/2019	10/08/2019
1910164-003A	SEP-CERIA	1941009-03	Water	Sample	09/16/2019	10/08/2019
1910164-004A	SEP-CERIA	1941009-04	Water	Sample	09/23/2019	10/08/2019

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	10/11/2019	10/13/2019	B192948	1901319



Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1941009  
Client PM: Andy Freeman  
Client Project: 1910164

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>1910164-001A, SEP-CERIA</b>										
1941009-01	Ce	Water	TR	8.70		0.100	1.00	µg/L	B192948	1901319
<b>1910164-002A, SEP-CERIA</b>										
1941009-02	Ce	Water	TR	14.0		0.100	1.00	µg/L	B192948	1901319
<b>1910164-003A, SEP-CERIA</b>										
1941009-03	Ce	Water	TR	4.79		0.100	1.00	µg/L	B192948	1901319
<b>1910164-004A, SEP-CERIA</b>										
1941009-04	Ce	Water	TR	13.9		0.100	1.00	µg/L	B192948	1901319



## Accuracy & Precision Summary

Batch: B192948  
Lab Matrix: Water  
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B192948-BS1	Blank Spike, (1849078) Ce		600.0	566.7	µg/L	94% 75-125	
B192948-BS2	Blank Spike, (1850083) Ce		20.00	19.66	µg/L	98% 75-125	
B192948-DUP1	Duplicate, (1941008-01) Ce	10.16		9.788	µg/L		4% 20
B192948-MS1	Matrix Spike, (1941008-01) Ce	10.16	600.0	577.4	µg/L	95% 75-125	
B192948-MSD1	Matrix Spike Duplicate, (1941008-01) Ce	10.16	600.0	574.6	µg/L	94% 75-125	0.5% 20

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1941009  
Client PM: Andy Freeman  
Client Project: 1910164

## Method Blanks & Reporting Limits

Batch: B192948  
Matrix: Water  
Method: EPA 1638 Mod  
Analyte: Ce

Sample	Result	Units
B192948-BLK1	0.001	µg/L
B192948-BLK2	0.0002	µg/L
B192948-BLK3	0.0003	µg/L
B192948-BLK4	0.0005	µg/L

Average: 0.001  
Limit: 0.080

MDL: 0.008  
MRL: 0.080

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1941009  
Client PM: Andy Freeman  
Client Project: 1910164

## Sample Containers

Lab ID: 1941009-01  
Sample: 1910164-001A

Des	Container
A	Client-Provided - TM

Size
250mL

Lot
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3 (Client)

P-Lot
<2

Collected: 09/03/2019  
Received: 10/08/2019  
pH Ship. Cont.  
na Cooler -  
1941009

Lab ID: 1941009-02  
Sample: 1910164-002A

Des	Container
A	Client-Provided - TM

Size
250mL

Lot
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3 (Client)

P-Lot
<2

Collected: 09/10/2019  
Received: 10/08/2019  
pH Ship. Cont.  
na Cooler -  
1941009

Lab ID: 1941009-03  
Sample: 1910164-003A

Des	Container
A	Client-Provided - TM

Size
250mL

Lot
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3 (Client)

P-Lot
<2

Collected: 09/16/2019  
Received: 10/08/2019  
pH Ship. Cont.  
na Cooler -  
1941009

Lab ID: 1941009-04  
Sample: 1910164-004A

Des	Container
A	Client-Provided - TM

Size
250mL

Lot
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
HNO3 (Client)

P-Lot
<2

Collected: 09/23/2019  
Received: 10/08/2019  
pH Ship. Cont.  
na Cooler -  
1941009

**Project ID:** HLL-NM1901  
**PM:** Lauren Blaiwes



BAL Report 1941009  
**Client PM:** Andy Freeman  
**Client Project:** 1910164

## Shipping Containers

### **Cooler - 1941009**

**Received:** October 8, 2019 10:15  
**Tracking No:** 7765 7107 6998 via FedEx  
**Coolant Type:** Blue Ice  
**Temperature:** 1.8 °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





# CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

Hall Environmental Analysis Laboratory Report 1941009  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975  
FAX: 505-345-4107  
Website: www.hallenvironmental.com

SUB CONTRACTOR		Brooks Applied Lab		COMPANY	Brooks Applied Lab		PHONE	(206) 632-6206		FAX		
ADDRESS		18804 Northcreek Parkway, Ste 100										
CITY, STATE, ZIP		Bothell, WA 98011										
ACCOUNT #												
EMAIL												
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS					
1	1910164-001A	SEP-CER1A	125HDP	Aqueous	9/3/2019 9:00:00 AM	1	Cerium					
2	1910164-002A	SEP-CER1A	125HDP	Aqueous	9/10/2019 9:00:00 AM	1	Cerium					
3	1910164-003A	SEP-CER1A	125HDP	Aqueous	9/16/2019 9:00:00 AM	1	Cerium					
4	1910164-004A	SEP-CER1A	125HDP	Aqueous	9/23/2019 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: 10/27/2019	Time: 3:37 PM	Received By:	Date: 10/8/19	Time: 10:15
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT:	Standard <input checked="" type="checkbox"/>	RUSH <input type="checkbox"/>	NON-BID <input type="checkbox"/>	2nd BID <input type="checkbox"/>	3rd BID <input type="checkbox"/>
REPORT TRANSMITTAL DESIRED <input type="checkbox"/> HARD COPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE					
FOR LAB USE ONLY					
Temp of samples: _____ Attempt to Cool: _____					
Comments: _____					
9 of 9					

## Sample Log-In Check List

Client Name: **Intel Corp**

Work Order Number: **1910164**

RcptNo: 1

Received By: **Desiree Dominguez** 10/2/2019 1:33:00 PM

Completed By: **Desiree Dominguez** 10/2/2019 3:31:05 PM

Reviewed By: *SO 10/4/19*

*DD*

*DD*

### 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 ☐

Not required

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. 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH: 4

(2 or >12 unless noted)

Adjusted? NO

Checked by: DAD 10/4/19

### 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	24.6	Good	Not Present			



# 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:

CERIA

Project #:

Project Manager:

Amy Reed

Sampler:

Ron Urban

On Ice: ☐ Yes ☒ No

# of Coolers: 1

Cooler Temp (including CP): 24.8 (-0.2) = 24.6 (°C)

Date Time Matrix Sample Name

9/13/19 0900 W SEP-CERIA

9/16/19 0900 W SEP-CERIA

9/16/19 0900 W SEP-CERIA

9/17/19 0900 W SEP-CERIA

Container Type and #

HND3

HND3

HND3

HND3

Preservative Type

HND3

HND3

HND3

HND3

HEAL No.

1910164

-002

-003

-004

Date: 10/2/19

Relinquished by: K. Urban

Time: 0800

Received by: DR

Via: courier

Date: 10/2/19 13:33

Date Time

Date Time

## Analysis Request

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<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
8260 (VOA)  
8270 (Semi-VOA)  
Total Coliform (Present/Absent)

CERIA  
X  
X  
X  
X

Remarks:

Please send Final report to tpeacock@abcwua.org as well as Amy Reed.



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

December 20, 2019

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

RE: Ceria Sampling

OrderNo.: 1911330

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/6/2019 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



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

December 19, 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 November 15, 2019, Brooks Applied Labs (BAL) received four (4) water 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.

Total Ce Quantitation by ICP-QQQ-MS

All aqueous samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. All sediment samples were digested via modified EPA Method 3050B with a mix of concentrated nitric acid, hydrochloric acid, and hydrogen peroxide. 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  
Project Manager  
Lauren@brooksapplied.com

Jenna Saeedi  
Project Coordinator  
Jenna@brooksapplied.com





## Report Information

### Laboratory Accreditation

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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 9/23/09)

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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.

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Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1946057  
Client PM: Andy Freeman  
Client Project: 1911330

## Sample Information

Sample	Alias	Lab ID	Report Matrix	Type	Sampled	Received
1911330-001A	OCT- CER WW41	1946057-01	Water	Sample	10/07/2019	11/15/2019
1911330-002A	OCT- CER WW42	1946057-02	Water	Sample	10/14/2019	11/15/2019
1911330-003A	OCT- CER WW43	1946057-03	Water	Sample	10/21/2019	11/15/2019
1911330-004A	OCT- CER WW44	1946057-04	Water	Sample	10/28/2019	11/15/2019

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	12/13/2019	12/17/2019	B193636	1901659



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>1911330-001A, OCT- CER WW41</b>										
1946057-01	Ce	Water	TR	26.6		0.012	0.080	µg/L	B193636	1901659
<b>1911330-002A, OCT- CER WW42</b>										
1946057-02	Ce	Water	TR	28.4		0.012	0.080	µg/L	B193636	1901659
<b>1911330-003A, OCT- CER WW43</b>										
1946057-03	Ce	Water	TR	47.1		0.012	0.080	µg/L	B193636	1901659
<b>1911330-004A, OCT- CER WW44</b>										
1946057-04	Ce	Water	TR	40.8		0.012	0.080	µg/L	B193636	1901659



## Accuracy & Precision Summary

Batch: B193636  
Lab Matrix: Water  
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B193636-BS1	Blank Spike, (1943018) Ce		100.0	101.5	µg/L	102% 75-125	
B193636-DUP2	Duplicate, (1946057-01) Ce	26.57		29.40	µg/L		10% 20
B193636-MS2	Matrix Spike, (1946057-01) Ce	26.57	100.0	135.9	µg/L	109% 75-125	
B193636-MSD2	Matrix Spike Duplicate, (1946057-01) Ce	26.57	100.0	134.4	µg/L	108% 75-125	1% 20

## Method Blanks & Reporting Limits

Batch: B193636  
Matrix: Water  
Method: EPA 1638 Mod  
Analyte: Ce

Sample	Result	Units
B193636-BLK1	0.004	µg/L
B193636-BLK2	0.001	µg/L
B193636-BLK3	0.007	µg/L
B193636-BLK4	0.0006	µg/L

Average: 0.003  
Limit: 0.080

MDL: 0.012  
MRL: 0.080

Project ID: HLL-NM1901  
PM: Lauren Blaiwes



BAL Report 1946057  
Client PM: Andy Freeman  
Client Project: 1911330

## Sample Containers

Lab ID: 1946057-01

Sample: 1911330-001A

Des Container  
A Bottle HDPE ICP-W

Size  
125mL

Lot  
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
1mL HNO3 (Client)

P-Lot  
na

Collected: 10/07/2019  
Received: 11/15/2019  
pH Ship. Cont.  
<2 Cooler -  
1946057

Lab ID: 1946057-02

Sample: 1911330-002A

Des Container  
A Bottle HDPE ICP-W

Size  
125mL

Lot  
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
1mL HNO3 (Client)

P-Lot  
na

Collected: 10/14/2019  
Received: 11/15/2019  
pH Ship. Cont.  
<2 Cooler -  
1946057

Lab ID: 1946057-03

Sample: 1911330-003A

Des Container  
A Bottle HDPE ICP-W

Size  
125mL

Lot  
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
1mL HNO3 (Client)

P-Lot  
na

Collected: 10/21/2019  
Received: 11/15/2019  
pH Ship. Cont.  
<2 Cooler -  
1946057

Lab ID: 1946057-04

Sample: 1911330-004A

Des Container  
A Bottle HDPE ICP-W

Size  
125mL

Lot  
na

Report Matrix: Water  
Sample Type: Sample  
Preservation  
1mL HNO3 (Client)

P-Lot  
na

Collected: 10/28/2019  
Received: 11/15/2019  
pH Ship. Cont.  
<2 Cooler -  
1946057

## Shipping Containers

### Cooler - 1946057

Received: November 15, 2019 10:20  
Tracking No: 7769 7886 2635 via FedEx  
Coolant Type: Blue Ice  
Temperature: 1.0 °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





# 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

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

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	1911330-001A	OCT- CER WW41	125HDP	Aqueous	10/7/2019 9:00:00 AM	1	Cerium
2	1911330-002A	OCT- CER WW42	125HDP	Aqueous	10/14/2019 9:00:00 AM	1	Cerium
3	1911330-003A	OCT- CER WW43	125HDP	Aqueous	10/21/2019 9:00:00 AM	1	Cerium
4	1911330-004A	OCT- CER WW44	125HDP	Aqueous	10/28/2019 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: 11/08/2019	Time: 8:33 AM	Received By:	Date: 11/14/2019	Time: 10:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT:	Standard <input checked="" type="checkbox"/>	RUSH	Next BD	2nd BD	3rd BD
REPORT TRANSMITTAL DESIRED:			FOR LAB USE ONLY		
HARD COPY (extra cost)		FAX	EMAIL	ONLINE	
Temp of samples			C	Attempt to Cool ?	
Comments:					



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: 1911330

RcptNo: 1

Received By: Isaiah Ortiz 11/6/2019 2:40:00 PM

Completed By: Desiree Dominguez 11/8/2019 8:23:18 AM

Reviewed By: YG 11/11/19

IOX

DD

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☒ NA ☐

Not required

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. 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: DM 11/11/19

### 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	20.5	Good	Not Present			



Chain-of-Custody Record					
Client:		INTEL Corp			
Mailing Address:					
Phone #:		505-794-6841			
email or Fax#:		amy.reed@intel.com			
QA/QC Package:		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)			
Accreditation:		<input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other			
EDD (Type)		Std.			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type
10/17/19	0900	W	OCT-CER <sup>WW</sup> 41	N/A	-001
10/17/19	0900	W	OCT-CER <sup>WW</sup> 42	N/A	-002
10/21/19	0900	W	OCT-CER <sup>WW</sup> 43	N/A	-003
10/21/19	0900	W	OCT-CER <sup>WW</sup> 44	N/A	-004
Relinquished by:		Amy Reed			
Date:	Time:				
11/4/19	11:00				
Received by:		T-C courier			
Date:	Time:				
		11/6/19 1400			

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: URIA Sampling

Project #: \_\_\_\_\_

Project Manager:	Amy Reed	
Sampler:		
On Ice:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
# of Coolers:	1	

Container Type and #	Preservative Type	HEAL No. 1911330
Cooler Temp (including CF): 20.7 (CF) 20.5 (°C)		

	$\nu/A$	-001
--	---------	------

			n/A	-00Z	Z

	N/A	-003	
--	-----	------	--

	n/A	-004
--	-----	------

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

Received by:	Visa:	Date:	Time:

Received by:	Via:	Date	Time
TC	courier	11/6/19	1400

Received by:	Via:	Date	Time



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**  
www.hallenvironmental.com

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

## Analysis Request

[illegible]

Remarks: please email final report additionally to tpeacock@abcwna.org v mzarrei@abcwna.org submit samples with CriaA samples collected from ABCWNA on 11/6/19 as well.

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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

January 14, 2020

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

RE: Cerium

OrderNo.: 1912221

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/4/2019 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • [info@brooksapplied.com](mailto:info@brooksapplied.com)

January 13, 2020

Hall Environmental  
ATTN: Andy Freeman  
4901 Hawkins NE, Suite D  
Albuquerque, NM 87109  
[Andy@hallenvironmental.com](mailto:Andy@hallenvironmental.com)

RE: Project HLL-NM1901

Dear Andy Freeman,

On December 12, 2019, 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 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](http://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.

Quality control samples for batch B193847 were run at two different dilutions due to the original matrix spike (MS) and matrix spike duplicate (MSD) recovering above calibration limits.

Aside from concentration qualifiers, 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,

A handwritten signature in black ink that reads 'Lydia Greaves'.

Lydia Greaves  
Client Services Manager  
Brooks Applied Labs  
[Lydia@brooksapplied.com](mailto:Lydia@brooksapplied.com)

A handwritten signature in black ink that reads 'Jenna Saeedi'.

Jenna Saeedi  
Project Coordinator  
Brooks Applied Labs  
[Jenna@brooksapplied.com](mailto:Jenna@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

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

### Definition of Data Qualifiers

(Effective 9/23/09)

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

**Project ID:** HLL-NM1901  
**PM:** Lydia Greaves



BAL Report 1950056  
**Client PM:** Andy Freeman  
**Client Project:** HLL-NM1901

## Sample Information

Sample	Alias	Lab ID	Report Matrix	Type	Sampled	Received
1912221-001A	NOV-CER WW45	1950056-01	Water	Sample	11/04/2019	12/12/2019
1912221-002A	NOV-CER WW46	1950056-02	Water	Sample	11/11/2019	12/12/2019
1912221-003A	NOV-CER WW47	1950056-03	Water	Sample	11/08/2019	12/12/2019
1912221-004A	NOV-CER WW48	1950056-04	Water	Sample	11/25/2019	12/12/2019

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	12/17/2019	12/26/2019	B193733	1901689
Ce	Water	EPA 1638 Mod	01/01/2020	01/03/2020	B193847	2000005



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>1912221-001A, NOV-CER WW45</b>										
1950056-01	Ce	Water	TR	60.9		0.008	0.080	µg/L	B193847	2000005
<b>1912221-002A, NOV-CER WW46</b>										
1950056-02	Ce	Water	TR	18.4		0.008	0.080	µg/L	B193733	1901689
<b>1912221-003A, NOV-CER WW47</b>										
1950056-03	Ce	Water	TR	11.1		0.008	0.080	µg/L	B193733	1901689
<b>1912221-004A, NOV-CER WW48</b>										
1950056-04	Ce	Water	TR	719		0.200	2.00	µg/L	B193847	2000005



## Accuracy & Precision Summary

Batch: B193733  
Lab Matrix: Water  
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B193733-BS1	Blank Spike, (1940023) Ce		400.0	366.0	µg/L	91% 75-125	
B193733-DUP1	Duplicate, (1950054-05) Ce	0.044		0.041	µg/L		5% 20
B193733-MS1	Matrix Spike, (1950054-05) Ce	0.044	400.0	387.2	µg/L	97% 75-125	
B193733-MSD1	Matrix Spike Duplicate, (1950054-05) Ce	0.044	400.0	386.7	µg/L	97% 75-125	0.1% 20



## Accuracy & Precision Summary

Batch: B193847  
Lab Matrix: Water  
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B193847-BS1	Blank Spike, (1940023) Ce		400.0	397.9	µg/L	99% 75-125	
B193847-DUP1	Duplicate, (1950056-01) Ce	60.94		62.65	µg/L		3% 20
B193847-MS2	Matrix Spike, (1950056-01) Ce	60.94	400.0	562.3	µg/L	125% 75-125	
B193847-MSD2	Matrix Spike Duplicate, (1950056-01) Ce	60.94	400.0	532.0	µg/L	118% 75-125	6% 20



**Project ID:** HLL-NM1901  
**PM:** Lydia Greaves



BAL Report 1950056  
**Client PM:** Andy Freeman  
**Client Project:** HLL-NM1901

## Method Blanks & Reporting Limits

**Batch:** B193733  
**Matrix:** Water  
**Method:** EPA 1638 Mod  
**Analyte:** Ce

Sample	Result	Units
B193733-BLK1	-0.002	µg/L
B193733-BLK2	-0.004	µg/L
B193733-BLK3	-0.003	µg/L
B193733-BLK4	-0.003	µg/L

**Average:** -0.003  
**Limit:** 0.080

**MDL:** 0.008  
**MRL:** 0.080

**Project ID:** HLL-NM1901  
**PM:** Lydia Greaves



BAL Report 1950056  
**Client PM:** Andy Freeman  
**Client Project:** HLL-NM1901

## Method Blanks & Reporting Limits

**Batch:** B193847  
**Matrix:** Water  
**Method:** EPA 1638 Mod  
**Analyte:** Ce

Sample	Result	Units
B193847-BLK1	-0.001	µg/L
B193847-BLK2	0.0001	µg/L
B193847-BLK3	-0.0006	µg/L
B193847-BLK4	0.00005	µg/L

**Average:** 0.000  
**Limit:** 0.080

**MDL:** 0.008  
**MRL:** 0.080

**Project ID:** HLL-NM1901  
**PM:** Lydia Greaves



BAL Report 1950056  
**Client PM:** Andy Freeman  
**Client Project:** HLL-NM1901

## Sample Containers

Lab ID: 1950056-01 Sample: 1912221-001A			Report Matrix: Water Sample Type: Sample			Collected: 11/04/2019 Received: 12/12/2019	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle HDPE ICP-W	125mL	na	HNO3 (Client)	na	<2	Cooler - 1950056
Lab ID: 1950056-02 Sample: 1912221-002A			Report Matrix: Water Sample Type: Sample			Collected: 11/11/2019 Received: 12/12/2019	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle HDPE ICP-W	125mL	na	HNO3 (Client)	na	<2	Cooler - 1950056
Lab ID: 1950056-03 Sample: 1912221-003A			Report Matrix: Water Sample Type: Sample			Collected: 11/08/2019 Received: 12/12/2019	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle HDPE ICP-W	125mL	na	HNO3 (Client)	na	<2	Cooler - 1950056
Lab ID: 1950056-04 Sample: 1912221-004A			Report Matrix: Water Sample Type: Sample			Collected: 11/25/2019 Received: 12/12/2019	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle HDPE ICP-W	125mL	na	HNO3 (Client)	na	<2	Cooler - 1950056

## Shipping Containers

### Cooler - 1950056

**Received:** December 12, 2019 9:53  
**Tracking No:** 7772 0647 0446 via FedEx  
**Coolant Type:** Blue Ice  
**Temperature:** 1.3 °C

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

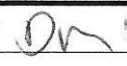
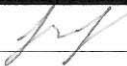
**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes

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

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	1912221-001A	NOV-CER WW45	125HDPHNO	Waste	11/4/2019 9:00:00 AM	1	CERIUIM
2	1912221-002A	NOV-CER WW46	125HDPHNO	Waste	11/11/2019 9:00:00 AM	1	CERIUIM
3	1912221-003A	NOV-CER WW47	125HDPHNO	Waste	11/8/2019 9:00:00 AM	1	CERIUIM
4	1912221-004A	NOV-CER WW48	125HDPHNO	Waste	11/25/2019 9:00:00 AM	1	CERIUIM

**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: <b>12/5/2019</b>	Time: <b>3:16 PM</b>	Received By: 	Date: <b>12/12/19</b>	Time: <b>0953</b>	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of samples _____ °C Attempt to Cool ? _____	
TAT: Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						Comments: _____	

## Sample Log-In Check List

Client Name: Intel Corp

Work Order Number: 1912221

RcptNo: 1

Received By: Isaiah Ortiz

12/4/2019 11:15:00 AM

*IOX*

Completed By: Daniel Marquez

12/5/2019 12:24:35 PM

*DM*

Reviewed By: *DAD 12/5/19*

### Chain of Custody

1. Is Chain of Custody sufficiently 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *4*  
( $<2$  or  $>12$  unless noted)

Adjusted? *no*

Checked by *DM 12/5/19*

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.3	Good				





## **ATTACHMENT D**

### **Semi-Annual Monitoring Analytical Results**



## ANALYTICAL REPORT

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

Laboratory Job ID: 280-130117-1

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



Authorized for release by:  
11/15/2019 3:11:08 PM

Donna Rydberg, Senior Project Manager  
(303)736-0192  
[donna.rydberg@testamericainc.com](mailto:donna.rydberg@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

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

Job ID: 280-130117-1

**Job ID: 280-130117-1**

**Laboratory: Eurofins TestAmerica, Denver**

## Narrative

### CASE NARRATIVE

**Client: Intel Corporation**

**Project: Semi Annual Waste Water**

**Report Number: 280-130117-1**

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 10/25/2019 at 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

#### **SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Sample H2-102419 (280-130117-4) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/30/2019 and analyzed on 11/02/2019 and 11/05/2019.

Sample H2-102419 (280-130117-4) required a 40X dilution prior to analysis. The reporting limits have been adjusted accordingly.

The recovery for surrogate Phenol-d5 was outside the surrogate recovery criteria low in sample H2-102419 (280-130117-4). All other surrogates were in control.

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 H2-102419 (280-130117-4) was analyzed for Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) in accordance with SW846 8015C. The samples were analyzed on 11/01/2019.

Ethylene glycol failed the recovery criteria low for the MS and MSD performed on sample H2-102419 (280-130117-4) in batch 680-594159. The associated LCS and LCSD samples were in control and provide evidence that operating procedures were in control.

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

#### **TOTAL METALS (ICP)**

Samples H2-102119 (280-130117-1), H2-102219 (280-130117-2), H2-102319 (280-130117-3) and H2-102419 (280-130117-4) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/30/2019 and analyzed on 10/31/2019.

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

#### **TOTAL METALS (ICPMS)**



## Case Narrative

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

Job ID: 280-130117-1

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### Job ID: 280-130117-1 (Continued)

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#### Laboratory: Eurofins TestAmerica, Denver (Continued)

Samples H2-102119 (280-130117-1), H2-102219 (280-130117-2), H2-102319 (280-130117-3) and H2-102419 (280-130117-4) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 11/04/2019 and analyzed on 11/05/2019.

Samples H2-102119 (280-130117-1)[10X], H2-102219 (280-130117-2)[10X], H2-102319 (280-130117-3)[10X] and H2-102419 (280-130117-4)[10X] 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.

## Definitions/Glossary

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

Job ID: 280-130117-1

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

#### GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

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

## Detection Summary

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

Job ID: 280-130117-1

**Client Sample ID: H2-102119**

**Lab Sample ID: 280-130117-1**

No Detections.

**Client Sample ID: H2-102219**

**Lab Sample ID: 280-130117-2**

No Detections.

**Client Sample ID: H2-102319**

**Lab Sample ID: 280-130117-3**

No Detections.

**Client Sample ID: H2-102419**

**Lab Sample ID: 280-130117-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methyl-2-pyrrolidinone	1100		380	66	ug/L	40		8270C	Total/NA
Ethylene glycol	2.6	J F1	5.0	1.2	mg/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

## Method Summary

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

Job ID: 280-130117-1

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

### Protocol References:

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

### Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565  
TAL CAN = 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: 280-130117-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-130117-1	H2-102119	Water	10/21/19 09:00	10/25/19 09:30	
280-130117-2	H2-102219	Water	10/22/19 09:00	10/25/19 09:30	
280-130117-3	H2-102319	Water	10/23/19 09:00	10/25/19 09:30	
280-130117-4	H2-102419	Water	10/24/19 09:00	10/25/19 09:30	



# Client Sample Results

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

Job ID: 280-130117-1

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

Client Sample ID: H2-102419  
Date Collected: 10/24/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-4  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrolidinone	1100		380	66	ug/L		10/30/19 09:28	11/05/19 15:16	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		39 - 120				10/30/19 09:28	11/05/19 15:16	40
2-Fluorophenol (Surr)	24		10 - 120				10/30/19 09:28	11/05/19 15:16	40
2,4,6-Tribromophenol (Surr)	35		33 - 120				10/30/19 09:28	11/05/19 15:16	40
Nitrobenzene-d5 (Surr)	61		33 - 120				10/30/19 09:28	11/05/19 15:16	40
Phenol-d5 (Surr)	0	X	10 - 120				10/30/19 09:28	11/05/19 15:16	40
Terphenyl-d14 (Surr)	44		36 - 122				10/30/19 09:28	11/05/19 15:16	40

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

Client Sample ID: H2-102419  
Date Collected: 10/24/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-4  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	2.6	J F1	5.0	1.2	mg/L			11/01/19 23:06	1

## Method: 6010C - Metals (ICP)

Client Sample ID: H2-102119  
Date Collected: 10/21/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-1  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		10/30/19 07:54	10/31/19 09:59	1

Client Sample ID: H2-102219  
Date Collected: 10/22/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-2  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		10/30/19 07:54	10/31/19 09:57	1

Client Sample ID: H2-102319  
Date Collected: 10/23/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-3  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		10/30/19 07:54	10/31/19 10:01	1

Client Sample ID: H2-102419  
Date Collected: 10/24/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-4  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		10/30/19 07:54	10/31/19 10:02	1

## Method: 6020A - Metals (ICP/MS)

Client Sample ID: H2-102119  
Date Collected: 10/21/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-1  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L		11/04/19 14:18	11/05/19 18:43	10

Eurofins TestAmerica, Denver

# Client Sample Results

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

Job ID: 280-130117-1

## Method: 6020A - Metals (ICP/MS)

Client Sample ID: H2-102219  
Date Collected: 10/22/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-2  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L	—	11/04/19 14:18	11/05/19 19:10	10

Client Sample ID: H2-102319  
Date Collected: 10/23/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-3  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L	—	11/04/19 14:18	11/05/19 19:16	10

Client Sample ID: H2-102419  
Date Collected: 10/24/19 09:00  
Date Received: 10/25/19 09:30

Lab Sample ID: 280-130117-4  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L	—	11/04/19 14:18	11/05/19 19:23	10

# QC Sample Results

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

Job ID: 280-130117-1

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

Lab Sample ID: MB 240-408276/20-A

Matrix: Water

Analysis Batch: 408874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 408276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrolidinone	ND		10	1.7	ug/L		10/30/19 09:28	11/02/19 13:03	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		39 - 120				10/30/19 09:28	11/02/19 13:03	1
2-Fluorophenol (Surr)	30		10 - 120				10/30/19 09:28	11/02/19 13:03	1
2,4,6-Tribromophenol (Surr)	68		33 - 120				10/30/19 09:28	11/02/19 13:03	1
Nitrobenzene-d5 (Surr)	69		33 - 120				10/30/19 09:28	11/02/19 13:03	1
Phenol-d5 (Surr)	17		10 - 120				10/30/19 09:28	11/02/19 13:03	1
Terphenyl-d14 (Surr)	82		36 - 122				10/30/19 09:28	11/02/19 13:03	1

Lab Sample ID: LCS 240-408276/21-A

Matrix: Water

Analysis Batch: 408874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 408276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Chloronaphthalene	20.0	14.1		ug/L		70	58 - 120
2-Chlorophenol	20.0	12.0		ug/L		60	55 - 120
2,4-Dichlorophenol	20.0	14.3		ug/L		71	60 - 120
2,4-Dimethylphenol	20.0	13.5		ug/L		68	56 - 120
2,4-Dinitrophenol	40.0	14.3		ug/L		36	20 - 122
2,4-Dinitrotoluene	20.0	15.2		ug/L		76	66 - 120
2-Nitrophenol	20.0	15.7		ug/L		79	60 - 120
1,2,4-Trichlorobenzene	20.0	12.5		ug/L		63	50 - 120
2,4,6-Trichlorophenol	20.0	15.8		ug/L		79	63 - 120
2,6-Dinitrotoluene	20.0	17.0		ug/L		85	70 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl (Surr)	77		39 - 120				
2-Fluorophenol (Surr)	29		10 - 120				
2,4,6-Tribromophenol (Surr)	90		33 - 120				
Nitrobenzene-d5 (Surr)	72		33 - 120				
Phenol-d5 (Surr)	16		10 - 120				
Terphenyl-d14 (Surr)	78		36 - 122				

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

Lab Sample ID: MB 680-594159/19

Matrix: Water

Analysis Batch: 594159

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		5.0	1.2	mg/L			11/01/19 20:16	1

Eurofins TestAmerica, Denver

# QC Sample Results

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

Job ID: 280-130117-1

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

Lab Sample ID: LCS 680-594159/15

Matrix: Water

Analysis Batch: 594159

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	22.5		mg/L		113	61 - 148

Lab Sample ID: LCSD 680-594159/16

Matrix: Water

Analysis Batch: 594159

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	22.0		mg/L		110	61 - 148	2	50

Lab Sample ID: 280-130117-4 MS

Matrix: Water

Analysis Batch: 594159

Client Sample ID: H2-102419

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene glycol	2.6	J F1	20.0	12.7	F1	mg/L		51	61 - 148

Lab Sample ID: 280-130117-4 MSD

Matrix: Water

Analysis Batch: 594159

Client Sample ID: H2-102419

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	2.6	J F1	20.0	12.9	F1	mg/L		51	61 - 148	2	50

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-258761/1-A

Matrix: Water

Analysis Batch: 258965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 258761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		10/30/19 07:54	10/31/19 09:54	1

Lab Sample ID: LCS 310-258761/2-A

Matrix: Water

Analysis Batch: 258965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 258761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indium	2.00	1.79		mg/L		90	80 - 120

## Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-448736/1-A

Matrix: Water

Analysis Batch: 449098

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 448736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		11/04/19 14:18	11/05/19 18:09	2

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# QC Sample Results

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

Job ID: 280-130117-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-448736/2-A  
Matrix: Water  
Analysis Batch: 449098

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 448736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	10.0	9.89		ug/L		99	80 - 120

Lab Sample ID: 280-130117-1 MS  
Matrix: Water  
Analysis Batch: 449098

Client Sample ID: H2-102119  
Prep Type: Total/NA  
Prep Batch: 448736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	ND		10.0	10.3		ug/L		103	75 - 125

Lab Sample ID: 280-130117-1 MSD  
Matrix: Water  
Analysis Batch: 449098

Client Sample ID: H2-102119  
Prep Type: Total/NA  
Prep Batch: 448736

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Platinum	ND		10.0	9.95		ug/L		100	75 - 125	4	20



# QC Association Summary

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

Job ID: 280-130117-1

## GC/MS Semi VOA

### Prep Batch: 408276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-4	H2-102419	Total/NA	Water	3510C	
MB 240-408276/20-A	Method Blank	Total/NA	Water	3510C	
LCS 240-408276/21-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 408874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-408276/20-A	Method Blank	Total/NA	Water	8270C	408276
LCS 240-408276/21-A	Lab Control Sample	Total/NA	Water	8270C	408276

### Analysis Batch: 409198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-4	H2-102419	Total/NA	Water	8270C	408276

## GC VOA

### Analysis Batch: 594159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-4	H2-102419	Total/NA	Water	8015C	
MB 680-594159/19	Method Blank	Total/NA	Water	8015C	
LCS 680-594159/15	Lab Control Sample	Total/NA	Water	8015C	
LCS 680-594159/16	Lab Control Sample Dup	Total/NA	Water	8015C	
280-130117-4 MS	H2-102419	Total/NA	Water	8015C	
280-130117-4 MSD	H2-102419	Total/NA	Water	8015C	

## Metals

### Prep Batch: 258761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-1	H2-102119	Total/NA	Water	3010A	
280-130117-2	H2-102219	Total/NA	Water	3010A	
280-130117-3	H2-102319	Total/NA	Water	3010A	
280-130117-4	H2-102419	Total/NA	Water	3010A	
MB 310-258761/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-258761/2-A	Lab Control Sample	Total/NA	Water	3010A	

### Analysis Batch: 258965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-1	H2-102119	Total/NA	Water	6010C	258761
280-130117-2	H2-102219	Total/NA	Water	6010C	258761
280-130117-3	H2-102319	Total/NA	Water	6010C	258761
280-130117-4	H2-102419	Total/NA	Water	6010C	258761
MB 310-258761/1-A	Method Blank	Total/NA	Water	6010C	258761
LCS 310-258761/2-A	Lab Control Sample	Total/NA	Water	6010C	258761

### Prep Batch: 448736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-1	H2-102119	Total/NA	Water	3010A	
280-130117-2	H2-102219	Total/NA	Water	3010A	
280-130117-3	H2-102319	Total/NA	Water	3010A	
280-130117-4	H2-102419	Total/NA	Water	3010A	
MB 160-448736/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-448736/2-A	Lab Control Sample	Total/NA	Water	3010A	

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## QC Association Summary

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

Job ID: 280-130117-1

### Metals (Continued)

#### Prep Batch: 448736 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-1 MS	H2-102119	Total/NA	Water	3010A	
280-130117-1 MSD	H2-102119	Total/NA	Water	3010A	

#### Analysis Batch: 449098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-130117-1	H2-102119	Total/NA	Water	6020A	448736
280-130117-2	H2-102219	Total/NA	Water	6020A	448736
280-130117-3	H2-102319	Total/NA	Water	6020A	448736
280-130117-4	H2-102419	Total/NA	Water	6020A	448736
MB 160-448736/1-A	Method Blank	Total/NA	Water	6020A	448736
LCS 160-448736/2-A	Lab Control Sample	Total/NA	Water	6020A	448736
280-130117-1 MS	H2-102119	Total/NA	Water	6020A	448736
280-130117-1 MSD	H2-102119	Total/NA	Water	6020A	448736

# Lab Chronicle

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

Job ID: 280-130117-1

**Client Sample ID: H2-102119**

**Lab Sample ID: 280-130117-1**

**Date Collected: 10/21/19 09:00**

**Matrix: Water**

**Date Received: 10/25/19 09:30**

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	258761	10/30/19 07:54	HED	TAL CF
Total/NA	Analysis	6010C		1			258965	10/31/19 09:59	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	448736	11/04/19 14:18	LAM	TAL SL
Total/NA	Analysis	6020A		10			449098	11/05/19 18:43	LKP	TAL SL

**Client Sample ID: H2-102219**

**Lab Sample ID: 280-130117-2**

**Date Collected: 10/22/19 09:00**

**Matrix: Water**

**Date Received: 10/25/19 09:30**

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	258761	10/30/19 07:54	HED	TAL CF
Total/NA	Analysis	6010C		1			258965	10/31/19 09:57	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	448736	11/04/19 14:18	LAM	TAL SL
Total/NA	Analysis	6020A		10			449098	11/05/19 19:10	LKP	TAL SL

**Client Sample ID: H2-102319**

**Lab Sample ID: 280-130117-3**

**Date Collected: 10/23/19 09:00**

**Matrix: Water**

**Date Received: 10/25/19 09:30**

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	258761	10/30/19 07:54	HED	TAL CF
Total/NA	Analysis	6010C		1			258965	10/31/19 10:01	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	448736	11/04/19 14:18	LAM	TAL SL
Total/NA	Analysis	6020A		10			449098	11/05/19 19:16	LKP	TAL SL

**Client Sample ID: H2-102419**

**Lab Sample ID: 280-130117-4**

**Date Collected: 10/24/19 09:00**

**Matrix: Water**

**Date Received: 10/25/19 09:30**

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	408276	10/30/19 09:28	ARR	TAL CAN
Total/NA	Analysis	8270C		40			409198	11/05/19 15:16	MRU	TAL CAN
Total/NA	Analysis	8015C		1			594159	11/01/19 23:06	DC	TAL SAV
Total/NA	Prep	3010A			50 mL	50 mL	258761	10/30/19 07:54	HED	TAL CF
Total/NA	Analysis	6010C		1			258965	10/31/19 10:02	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	448736	11/04/19 14:18	LAM	TAL SL
Total/NA	Analysis	6020A		10			449098	11/05/19 19:23	LKP	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

Eurofins TestAmerica, Denver



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## Analytical Report

**WorkOrder:** 1910D11

**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:** 10/29/2019

Analytical Report reviewed & approved for release on 11/04/2019 by:

Yen Cao  
Project Manager

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





## Glossary of Terms & Qualifier Definitions

**Client:** TestAmerica Denver  
**Project:** 28003759; Semi Annual Waste Water  
**WorkOrder:** 1910D11

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
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
PDS D	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)





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1534 Willow Pass Road, Pittsburg, CA 94565-1701  
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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## Analytical Report

**Client:** TestAmerica Denver  
**Date Received:** 10/29/19 10:05  
**Date Prepared:**  
**Project:** 28003759; Semi Annual Waste Water

**WorkOrder:** 1910D11  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6010B  
**Unit:** µg/L

### Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-102119 (280-130117-1)	1910D11-001A	Water	10/21/2019 09:00	ICP-OES 17	187900

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	1.8	20	1	10/30/2019 12:36

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	110	70-130	10/30/2019 12:36

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-102219 (280-130117-2)	1910D11-002A	Water	10/22/2019 09:00	ICP-OES 21	187900

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	1.8	20	1	10/30/2019 12:47

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	113	70-130	10/30/2019 12:47

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-102319 (280-130117-3)	1910D11-003A	Water	10/23/2019 09:00	ICP-OES 22	187900

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	1.8	20	1	10/30/2019 12:50

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	112	70-130	10/30/2019 12:50

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2-102419 (280-130117-4)	1910D11-004A	Water	10/24/2019 09:00	ICP-OES 23	187900

<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	1.8	20	1	10/30/2019 12:53

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	111	70-130	10/30/2019 12:53

Analyst(s): ND



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## Quality Control Report

**Client:** TestAmerica Denver

**Date Prepared:** 10/29/19

**Date Analyzed:** 10/30/19

**Instrument:** ICP-OES

**Matrix:** Water

**Project:** 28003759; Semi Annual Waste Water

**WorkOrder:** 1910D11

**BatchID:** 187900

**Extraction Method:** SW3050B

**Analytical Method:** SW6010B

**Unit:** µg/L

**Sample ID:** MB/LCS/LCSD-187900  
 1910D11-001AMS/MSD

### QC Summary Report for Metals

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

#### Surrogate Recovery

Terbium	540			500	108	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	970	990	1000	97	99	85-115	2.30	20

#### Surrogate Recovery

Terbium	540	550	500	108	110	70-130	1.58	20
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Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1	1000	1100	1000	ND	104	107	70-130	2.80	20

#### Surrogate Recovery

Terbium	1	550	560	500		109	111	70-130	1.91	20
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Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND	ND	-	-

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

# McCampbell Analytical, Inc.



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

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1910D11 ClientCode: TADC

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

### Report to:

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

Email: dilea.bindel@testamericainc.com  
cc/3rd Party:

PO:

Project: 28003759; Semi Annual Waste Water

### Bill to:

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

Requested TAT: 5 days;

Date Received: 10/29/2019

Date Logged: 10/29/2019

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

1910D11-001	H2-102119 (280-130117-1)	Water	10/21/2019 09:00	<input type="checkbox"/>	A	A										
1910D11-002	H2-102219 (280-130117-2)	Water	10/22/2019 09:00	<input type="checkbox"/>	A	A										
1910D11-003	H2-102319 (280-130117-3)	Water	10/23/2019 09:00	<input type="checkbox"/>	A	A										
1910D11-004	H2-102419 (280-130117-4)	Water	10/24/2019 09:00	<input type="checkbox"/>	A	A										

### Test Legend:

1	METALS_6010_TTLC_W
5	
9	

2	PRDisposal Fee
6	
10	

3	
7	
11	

4	
8	
12	

Project Manager: Angela Rydelius

Prepared by: Tina Perez

Comments: no added per email 8/21/19

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.



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## WORK ORDER SUMMARY

**Client Name:** TESTAMERICA DENVER **Project:** 28003759; Semi Annual Waste Water **Work Order:** 1910D11  
**Client Contact:** Donna Rydberg **Comments:** po added per email 8/21/19 **QC Level:** LEVEL 2  
**Contact's Email:** donna.rydberg@testamericainc.com **Date Logged:** 10/29/2019

☐ Water Trax ☐ Write On ☐ EDF ☒ Excel ☐ EQulS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1910D11-001A	H2-102119 (280-130117-1)	Water	SW6010B (Metals) <Galium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	10/21/2019 9:00	5 days	None	<input type="checkbox"/>	
1910D11-002A	H2-102219 (280-130117-2)	Water	SW6010B (Metals) <Galium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	10/22/2019 9:00	5 days	None	<input type="checkbox"/>	
1910D11-003A	H2-102319 (280-130117-3)	Water	SW6010B (Metals) <Galium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	10/23/2019 9:00	5 days	None	<input type="checkbox"/>	
1910D11-004A	H2-102419 (280-130117-4)	Water	SW6010B (Metals) <Galium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	10/24/2019 9:00	5 days	None	<input type="checkbox"/>	

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

## Chain of Custody Record



Environment Testing  
TestAmerica

19/0D/11

<b>Client Information (Sub Contract Lab)</b>				Sampler: <b>Lab PM:</b>		Carrier Tracking No(s):		COC No:	
Client Contact: <b>Shipping/Receiving</b>				Phone: <b>E-Mail:</b>		State of Origin: <b>New Mexico</b>		Page: <b>Page 1 of 1</b>	
Company: <b>McCambell Analytical, Inc.</b>				Due Date Requested: <b>11/6/2019</b>		Job #:		280-130117-1	
Address: <b>1534 Willow Pass Road,</b>				TAT Requested (days):		Analysis Requested		Preservation Codes:	
City: <b>Pittsburg</b>				PO #:		Field Filtered Sample (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip: <b>CA, 94565</b>				WO #:		Perform MS/MSD (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone:				Project #:		SUB (Gallium - McCambell Analytical, Inc.) 60108		Total Number of containers	
Email:				SSOW#:		Gallium		Special Instructions/Note:	
Project Name: <b>Semi Annual Waste Water</b>				Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Site:				Sample Date		Sample Time		Matrix (W=water, S=solid, O=soil, ST=Tea, A=Air)	
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Preservation Code:	
H2-102119 (280-130117-1)				10/21/19		09:00		Water	
H2-102219 (280-130117-2)				10/22/19		09:00		Water	
H2-102319 (280-130117-3)				10/23/19		09:00		Water	
H2-102419 (280-130117-4)				10/24/19		09:00		Water	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte &amp; 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/leak/main being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>									
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) <b>Primary Deliverable Rank: 2</b></p>									
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <b>Months</b></p> <p>Special Instructions/OC Requirements:</p>									
<p>Empty Kit Relinquished by: <b>Date:</b> <b>Time:</b></p> <p>Relinquished by: <b>Date/Time:</b> <b>Company</b></p> <p>Relinquished by: <b>Date/Time:</b> <b>Company</b></p> <p>Relinquished by: <b>Date/Time:</b> <b>Company</b></p>									
<p>Custody Seals Intact: <b>Custody Seal No.:</b></p> <p>A Yes A No</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>									





## Sample Receipt Checklist

Client Name: **TestAmerica Denver**  
Project: **28003759; Semi Annual Waste Water**  
WorkOrder No: **1910D11** Matrix: Water  
Carrier: FedEx

Date and Time Received: **10/29/2019 10:05**  
Date Logged: **10/29/2019**  
Received by: **Tina Perez**  
Logged by: **Tina Perez**

### Chain of Custody (COC) Information

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

### Sample Receipt Information

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

### Sample Preservation and Hold Time (HT) Information

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

(Ice Type: WET ICE )

Sample/Temp Blank temperature	Temp: 1.1°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NA <input type="checkbox"/>

### UCMR Samples:

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

Comments:

## Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-130117-1

**Login Number: 130117**

**List Source: Eurofins TestAmerica, Denver**

**List Number: 1**

**Creator: Petunin, Peter**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: 280-130117-1

**Login Number: 130117**

**List Number: 4**

**Creator: Bindert, Lindsay A**

**List Source: Eurofins TestAmerica, Cedar Falls**

**List Creation: 10/29/19 02:15 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
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 $<6\text{mm}$ (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: 280-130117-1

**Login Number: 130117**

**List Number: 2**

**Creator: Sims, Robert D**

**List Source: Eurofins TestAmerica, Savannah**

**List Creation: 10/29/19 11:31 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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 $<6\text{mm}$ ( $1/4''$ ).	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: 280-130117-1

**Login Number: 130117**

**List Number: 3**

**Creator: Harris, Lorin C**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 10/29/19 12:34 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Chain of Custody Record

TestAm

THE LEADER IN ENVIRO



280-130117 Chain of Custody

<b>Client Information</b> Client Contact: Carrie Weitz / Megan Rosebrough Company: Intel Corporation Address: 4100 Sara Road Mail Stop RR5-491 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: carrie.a.weitz@intel.com Project Name: Semi Annual Waste Water Site:		Sampler: <i>K. Urban</i> Lab PM: Bindel, DiLea E-Mail: dillea.bindel@testamericainc.com Phone: 505-991-7797 Carrier Tracking No(s):	COC No: 280-23927-10503.1 Page: Page 1 of 1 Job #:
<b>Analysis Requested</b> Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSOW#:		Preservation Codes: A - HCL M - B - NaOH N - C - Zn Acetate O - D - Nitric Acid P - E - NaHSO4 Q - F - MeOH R - G - Amchlor S - H - Ascorbic Acid T - I - Ice U - J - DI Water V - known K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
<b>Sample Identification</b> Sample ID: 142-102119 Sample ID: 142-102219 Sample ID: 142-102319 Sample ID: 142-102419	Sample Date: 10/24/19 0900 Sample Date: 10/24/19 0900 Sample Date: 10/23/19 0900 Sample Date: 10/24/19 0900	Sample Time: C W Sample Time: C W Sample Time: C W Sample Time: C W	Matrix (W=water, S=solid, O=soil, BT=Trace, AA=Air) Preservation Code: C W Preservation Code: C W Preservation Code: C W Preservation Code: C W
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:	
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
<b>Special Instructions/QC Requirements:</b>			
<b>Empty Kit Relinquished by:</b>		<b>Method of Shipment:</b>	
Relinquished by: <i>K. Urban</i> Date/Time: 10/24/19 - 10 AM Company:		Received by: <i>[Signature]</i> Date/Time: 10/25/19 0930 Company: <i>ETAPEN</i>	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Custody Seal No.: 10603625		Cooler Temperature and Other Remarks: 10/25/19, 10/27/19	



280-130117 Waybill

ORIGIN ID: ONMA 50589384020000  
RIO RANCHO SHIPPING  
INTEL CORPORATION  
4100 SARA RD

SHIP DATE: 24OCT19  
ACTWGT: 41.0 LB  
CAD: 515551/FXRS1401

RIO RANCHO, NM 87124  
UNITED STATES US

BILL SENDER

TEST AMERICA  
4955 YARROW STREET

ARVADA CO 80002

(303) 431-7171

REF: 1304376633

INV:

PO:

DEPT:

52263/2A3C/F228



FedEx  
Express



J141214073081uv

TRK# 6431 3554 3209  
0201

FRI - 25 OCT 10:30A  
PRIORITY OVERNIGHT

XH WHHA

80002  
CO-US DEN



SHIP TO:

Test America  
4955 Yarrow Street  
Arvada Colorado 80002  
United States

Page 1 of 1

ite/Consign-To

Street  
rado 80002

Reference Number: 1304376633

E: R:

Product Detail  
Description  
EBook Serial Num

RMA#  
Category  
Repair Cost

319 1 A  
10:30  
3209  
10:25

1304376633



## Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Ryberg, Donna R	Carrier Tracking No(s): 280-503845.1						
Client Contact: Shipping/Receiving		E-Mail: donna.ryberg@testamerica.com	Page: Page 1 of 1						
Company: TestAmerica Laboratories, Inc.		Job #: 280-130117-1							
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: 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)							
Project Name: Semi Annual Waste Water Site:		Special Instructions/Note:							
Sample Identification - Client ID (Lab ID)		Total Number of containers							
H2-102119 (280-130117-1)	Sample Date 10/21/19	Sample Time 09:00 Mountain	Sample Type (C=Comp, G=grab)	Matrix (Weather, Solid, Owastefill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A/3010A_2% (MOD) 6020A Platinum	Analysis Requested	Special Instructions/Note:
H2-102219 (280-130117-2)	Sample Date 10/22/19	Sample Time 09:00 Mountain	Sample Type (C=Comp, G=grab)	Matrix (Weather, Solid, Owastefill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A/3010A_2% (MOD) 6020A Platinum	Analysis Requested	Special Instructions/Note:
H2-102319 (280-130117-3)	Sample Date 10/23/19	Sample Time 09:00 Mountain	Sample Type (C=Comp, G=grab)	Matrix (Weather, Solid, Owastefill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A/3010A_2% (MOD) 6020A Platinum	Analysis Requested	Special Instructions/Note:
H2-102419 (280-130117-4)	Sample Date 10/24/19	Sample Time 09:00 Mountain	Sample Type (C=Comp, G=grab)	Matrix (Weather, Solid, Owastefill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	602A/3010A_2% (MOD) 6020A Platinum	Analysis Requested	Special Instructions/Note:
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.									
<b>Possible Hazard Identification</b>									
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2									
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date/Time: 10/29/19 1500 Company: <i>[Signature]</i> Relinquished by: Date/Time: Company: Relinquished by: Date/Time: Company:									
Custody Seal No.: Δ Yes Δ No									





**Eurofins TestAmerica Canton Sample Receipt Form/Narrative**  
Canton Facility

Login # : \_\_\_\_\_

Client ETA Denver

Site Name \_\_\_\_\_

Cooler unpacked by: [Signature]

Cooler Received on 10-29-19

Opened on 10-29-19

FedEx: 1<sup>st</sup> Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

Receipt After-hours: Drop-off Date/Time \_\_\_\_\_

Storage Location \_\_\_\_\_

TestAmerica Cooler # TH 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. 3.6 °C Corrected Cooler Temp. 4.3 °C  
IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 4 ☒ 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# HC991818

13. Were VOAs on the COC? ☒ Yes ☐ No

14. Were air bubbles >6 mm in any VOA vials? ☒ 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: \_\_\_\_\_





Environment Testing  
TestAmerica



280-130117 Chain of Custody

### Cooler/Sample Receipt and Temperature Log form

<b>Client Information</b>			
Client: <u>ETA</u>			
City/State:	CITY <u>Arvada</u>	STATE <u>CO</u>	Project: <u>Semi Annual water</u>
<b>Receipt Information</b>			
Date/Time Received:	DATE <u>10/29/19</u>	TIME <u>0945</u>	Received By: <u>ca</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<b>Temperature Record</b>			
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <u>0</u>		Correction Factor (°C): <u>+0.1</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>250 mL</u>		CONTAINER 2
Uncorrected Temp (°C):	<u>12.2</u>		
Corrected Temp (°C):	<u>12.3</u>		
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			

Client Information (Sub Contract Lab)						Lab PM:	Rydberg, Donna R	COC No:						
Client Contact:						E-Mail:	donna.rydberg@testamericainc.com	Page:						
Shipping/Receiving						Phone:	New Mexico	Page 1 of 1						
Company:						Accreditations Required (See note):								
TestAmerica Laboratories, Inc						Job #:								
Address:						280-130117-1								
City:						Preservation Codes:								
State, Zip:						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:								
IA, 50613														
Phone:														
319-277-2401(Tel) 319-277-2425(Fax)														
Email:														
Project Name:														
Semi Annual Waste Water														
Site:														
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3010A (MOD) 6010C Indium	Total Number of containers	Special Instructions/Note:
H2-102119 (280-130117-1)					10/21/19	09:00 Mountain	Water			X			1	
H2-102219 (280-130117-2)					10/22/19	09:00 Mountain	Water			X			1	
H2-102319 (280-130117-3)					10/23/19	09:00 Mountain	Water			X			1	
H2-102419 (280-130117-4)					10/24/19	09:00 Mountain	Water			X			1	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (specify)														
Primary Deliverable Rank: 2														
Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month ) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
Special Instructions/QC Requirements:														
Empty Kit Relinquished by:														
Relinquished by: _____ Date: _____														
Relinquished by: _____ Date/Time: _____														
Relinquished by: _____ Date/Time: _____														
Relinquished by: _____ Date/Time: _____														
Custody Seal No.: _____														
Custody Seals Intact: A Yes A No														
Cooler Temperature(s) °C and Other Remarks:														



## Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>				Lab PM: Rydberg, Donna R		Carrier Tracking No(s): 280-503847.1	
Client Contact: Shipping/Receiving				Phone:		State of Origin: New Mexico	
Company: TestAmerica Laboratories, Inc.				E-Mail: donna.rydberg@testamericainc.com		Page 1 of 1	
Address: 5102 LaRoche Avenue, City: Savannah State, Zip: GA, 31404				Accreditations Required (See note)		Job #: 280-130117-1	
Phone: 912-354-7858(Tel) 912-352-0165(Fax)				Preservation Codes:			
Email:				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Project Name: Semi Annual Waste Water				Project #: 28003759			
Site:				SSOW#:			

Due Date Requested: 11/6/2019				Analysis Requested			
TAT Requested (days):							
PO #:							
WO #:							
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Sample Identification - Client ID (Lab ID)				Matrix (W=water, S=solid, O=oil)		Preservation Code:	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	

## H2 2019 Semi-Annual Data for SM 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	10/21/2019	2585	<b>0.069</b>	0.30	2.14
Indium	10/22/2019	2734	<b>0.069</b>	0.30	2.27
Indium	10/23/2019	2008	<b>0.069</b>	0.30	1.67
Indium	10/24/2019	1707	<b>0.069</b>	0.30	1.42
Gallium	10/21/2019	2585	<b>0.0018</b>	3.125	0.056
Gallium	10/22/2019	2734	<b>0.0018</b>	3.125	0.059
Gallium	10/23/2019	2008	<b>0.0018</b>	3.125	0.043
Gallium	10/24/2019	1707	<b>0.0018</b>	3.125	0.037
Platinum	10/21/2019	2585	<b>0.002</b>	0.10	0.062
Platinum	10/22/2019	2734	<b>0.002</b>	0.10	0.066
Platinum	10/23/2019	2008	<b>0.002</b>	0.10	0.048
Platinum	10/24/2019	1707	<b>0.002</b>	0.10	0.041

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.