



December 18, 2006

Jerry Wickham Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Clayton Project No. 33104-004583.04

Subject: Remedial Excavation Report for SLIC Case No. RO0002874 GE/Imatron/Caral Manufacturing 578 Cleveland Avenue, Albany, California

Dear Mr. Wickham:

Clayton Group Services, Inc., (Clayton) *a Bureau Veritas company*, has prepared this Remedial Excavation Report on behalf of GE Healthcare (GE) for the subject facility in response to your August 18, 2006 letter. Clayton excavated soil along the west side of the warehouse building to a depth of 3 feet below ground surface (bgs). The soil was disposed of at an appropriate non-hazardous waste landfill facility. The excavated area was backfilled with clean soil.

Based on our review of the current data and the remedial actions that have occurred at the site, Clayton recommends the SLIC Case be closed with no further investigation or remediation action. Please review the enclosed Report and call me at (925) 426-2681 or Mr. Richard Rinck of GE at (650) 827-7729 if you have any questions. We declare, under penalty of perjury, that the information and/or recommendations contained in the enclosed report is/are true and correct to the best of our knowledge.

Sincerely,

Michael J. Zimmerman, P.E., R.E.A. Senior Project Manager Environmental Services

MJZ/jdm

Enclosure cc: Richard Rinck, GE Healthcare 389 Oyster Point Blvd. Suite 8, South San Francisco, California 94080

# Clayton Group Services, Inc.

A Bureau Veritas Company 6920 Koll Center Parkway, Suite 216 Pleasanton, California 94566 Main: (925) 426-2600 Fax: (925) 426-0106 www.us.bureauveritas.com

# Remedial Excavation Report

Former GE Caral Manufacturing Facility 578 Cleveland Avenue Albany, California 94710

> December 18, 2006 33104-004583.04

Prepared for GE HEALTHCARE 389 Oyster Point Blvd. Suite 8 South San Francisco, California 94080



For the benefit of business and people

# Clayton Group Services, Inc.

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- B Alameda County Letter dated August 18, 2006
- C Non-Hazardous Waste Manifests
- D Laboratory Analytical Data Sheets



# **EXECUTIVE SUMMARY**

Clayton Group Services, Inc., (Clayton) *a Bureau Veritas company*, completed remedial action on behalf of GE Healthcare (GE) at the former GE facility located at 578 Cleveland Avenue in Albany, California (the "Site") (Figures 1, 2, and 3). The purpose of this Remedial Excavation Report is to document completion of remedial action activities at the Site pursuant to the workplan dated August 14, 2006 (Appendix A) and approved by the Alameda County Health Care Services Agency (the County) in its letter dated August 18, 2006 in association with SLIC Case NO. RO0002874 (Appendix B).

Clayton prepared this Remedial Excavation Report which consists of a description of how the work complied with the workplan and associated relevant figures and data depicting the remedial action location, permits, data tables, certified laboratory analytical data sheets, findings, conclusions, and recommendations.

Clayton will both submit the analytical data electronically to the Geotracker website and electronically submit a complete copy of the report to the GeoTracker website in PDF format.

## Background

In May 2006, soil samples collected west of the warehouse indicated the presence of three metals, antimony, cobalt and lead at shallow depths. Samples taken from deeper depths (3 to 6 feet bgs) did not contain concentrations of these metals that exceeded Regional Water Quality Control Board Environmental Screening Levels (ESLs).

On August 18, 2006, the County requested that GE complete an excavation west of the warehouse to remove soil in which these metals had been detected. In the meeting with the County on August 3, 2006, the County agreed that horizontal and vertical confirmation sampling was unnecessary because detected concentrations of these metals at depths greater than 3 feet in the area were below the ESLs and because there were adequate samples surrounding the excavation in which these metals had not been detected above the ESLs (Appendix B). Table 1 provides a summary of the soil sample results for the area west of the warehouse.

### **Scope of Work Completed**

In October 2006, Clayton excavated soil along the west side of the warehouse building to a depth of 3 feet bgs in the area shown in Figure 3. The overall dimensions of the excavation were approximately 100 feet long x 10 feet wide x 3 feet deep; 3,000 cubic feet or 111 cubic yards soil were removed.

The excavated soil was stockpiled in the parking lot on visqueen pending offsite disposal. A four (4) – point composite soil sample was taken from the stockpile and analyzed for total metals by Curtis and Tompkins Laboratory in Berkeley, California. Results from the stockpile sampling indicated that the excavated soil was non-hazardous. The soil was disposed offsite at an appropriate non-hazardous waste landfill facility. The excavation was backfilled and compacted with clean soil from a quarry. Prior to backfilling, a four-point composite soil sample was taken at the quarry that determined that the soil did not contain chemicals of concern above ESLs. Following the backfill and compaction activities, GE installed a 3-inch asphalt cover over the excavated area to return it to its original state.



# **Executive Summary**

(Continued)

# **Conclusions and Recommendations**

All work was accomplished in accordance with the workplan. As a result, the remedial activities were effective. Consequently, Clayton recommends that the SLIC case be closed and no further investigation or remediation action is necessary.



# 1.0 INTRODUCTION

Clayton Group Services, Inc., (Clayton) *a Bureau Veritas company*, completed remedial action on behalf of GE Healthcare (GE) at the former GE facility located at 578 Cleveland Avenue in Albany, California (the "Site") (Figures 1, 2, and 3). The purpose of this Remedial Excavation Report is to document completion of remedial action activities at the Site pursuant to the workplan dated August 14, 2006 (Appendix A) and approved by the Alameda County Health Care Services Agency (the County) in its letter dated August 18, 2006 in association with SLIC Case NO. RO0002874 (Appendix B).

The remedial action consisted of the removal of soil, located to the west of the warehouse, to a depth of 3 feet belowgrade surface (bgs). The overall dimensions of the excavation were approximately 100 feet long x 10 feet wide x 3 feet deep; 3,000 cubic feet or 111 cubic yards soil were removed. The excavated area was then backfilled and compacted with clean soil.

Clayton prepared this Remedial Excavation Report which consists of a description of how the work complied with the workplan and associated relevant figures and data depicting the remedial action location, permits, data tables, certified laboratory analytical data sheets, findings, conclusions, and recommendations.

Clayton will both submit the analytical data electronically to the GeoTracker website and electronically submit a complete copy of the report to the GeoTracker website in PDF format.

# 1.1 BACKGROUND

In February and May 2006, Clayton collected soil samples onsite at depths of 1, 3 and 6 feet bgs for borings SB-1 through SB-17 identified on Figure 2. Soil samples collected west of the warehouse indicated the presence of three metals, antimony, cobalt and lead in the 1-foot level. Samples taken from deeper depths (3 to 6 feet bgs) did not contain concentrations of these metals that exceeded Regional Water Quality Control Board Environmental Screening Levels (ESLs). Clayton submitted a Remedial Action Workplan on August 14, 2006, to address the County's request for additional remedial work. The County approved the workplan in its letter dated August 18, 2006 and stated that confirmation sampling was unnecessary because the previously obtained samples from depths greater than 3 feet in which these metals were not detected above ESLs provided adequate confirmation. Further, adequate horizontal samples had previously been taken from areas outside the excavation, making additional horizontal confirmation sampling also unnecessary.

# 1.2 WEST OF WAREHOUSE

Soil samples collected west of the warehouse (SB-13 through SB-17) in February and May 2006 were analyzed for the Title 22 CAM17 metals by EPA Methods 6000/7000 and PCBs by EPA Method 8082. Several metals were detected above ESLs in the samples from the 1-foot level.

• Antimony was detected in one sample that exceeded the residential ESL.



- Cobalt was detected in three samples that exceeded the residential and commercial/industrial ESLs.
- Lead was detected in two samples that exceeded the residential ESL

The previous soil samples collected on February 16, 2006 from 3 to 6 feet bgs in this same area showed significantly lower concentrations for metals than soil at 1 to 2 feet bgs. The County concluded that remedial excavation to a depth of three feet would be sufficient (Appendix B).

# 2.0 SCOPE OF WORK

The scope of work completed in October 2006 for the Remedial Excavation is presented below.

# 2.1 PRE-FIELD ACTIVITIES

The purpose of the pre-field activities was to appropriately plan the work and to ensure that onsite personnel were prepared for potential safety hazards at the property. Clayton obtained the required grading permit from the City of Albany, obtained access from the property owner, located utilities, and completed a health and safety plan.

Clayton contacted Underground Service Alert to mark underground utilities in the vicinity of the proposed excavation a minimum of 48 hours prior to the commencement of field activities. Clayton also contracted with a private utility locator to clear safe drilling locations and mark subsurface utilities in the project area.

Clayton developed a site-specific health and safety plan (HSP) for the Remedial Excavation detailing the work to be performed, safety precautions, emergency response procedures, nearest hospital information and onsite personnel responsible for managing emergency situations. A copy of the HSP was kept onsite during the field activities and tailgate health and safety meetings were conducted daily before the start of work.

# 2.2 FIELD ACTIVITIES

Clayton excavated soil along the west side of the warehouse building to a depth of 3 feet bgs in the area shown in Figure 3 from October 3 though October 5, 2006. The overall dimensions of the excavation were approximately 100 feet long x 10 feet wide x 3 feet deep; for a total of approximately 3,000 cubic feet or 111 cubic yards.

The excavated soil was stockpiled in the parking lot on visqueen pending offsite disposal. A four (4) – point composite soil sample was taken from the stockpile and analyzed for total metals by Curtis and Tompkins Laboratory in Berkeley, California. Results from the waste profile sample indicated that the soil was non-hazardous and that no chemicals of concern were present. Table 2 contains a summary of the analytical results from the waste profile sampling. Analytical data from the laboratory is included in Appendix C. The excavated soil was disposed of at the Altamont Landfill in Livermore California using the appropriate non-hazardous waste manifest forms. Copies of the non-hazardous waste manifest forms are included in Appendix D.



Following the soil removal, the excavated area was backfilled using clean, uncontaminated fill obtained from a quarry. Clayton took a four-point composite sample for metals of the fill material prior to the backfilling. The soil sample was submitted to Curtis and Tompkins Laboratory in Berkeley, California using the proper chain of custody procedures. The soil sample confirmed that the soil did not contain any chemicals of concern. Table 2 contains a summary of the results from the backfill soil sampling. Analytical data for the soil samples is included in Appendix C. The backfilling activities occurred from October 18<sup>th</sup> through October 27, 2006. Following the completion of the backfilling activities, asphalt was poured over the excavated area to a depth of three inches to return the site to its original state.

# 3.0 REMEDIAL EXCAVATION LIMITATIONS

Two items were identified during the excavation that had a minor impact on the performance of the workplan.

- A buried electrical line runs to a pole next to the west side of the warehouse between soil borings SB-14 and SB-15 (Figure 3). A second unidentified line ran from east to west adjacent to the building between borings SB-15 and SB-16 (Figure 3). Clayton hand excavated around the buried lines but had to leave a small area of soil in place around the pole to prevent impacting the structural footing of the pole and to avoid electrical shock hazards. The County approved this method in its August 18, 2006 letter.
- 2. During the excavation, a 4-inch drainage pipe was discovered about 2 feet below the surface, running the entire length of the area being excavated. The pipe crossed over the excavation area in two places. The pipe did not remain intact during the excavation, and therefore was removed. Clayton replaced the pipe with acrylonitrile-butadiene-styrene (ABS) pipe prior to backfilling the excavated area. The City of Albany visited the Site during the excavation activities and was satisfied with Clayton's plan to replace the pipe with an ABS section.

# 4.0 SITE INVESTIGATION CONCLUSIONS AND RECOMMENDATIONS

All work was accomplished in accordance with the workplan. As a result, the remedial activities were effective. Consequently, Clayton recommends that the SLIC case be closed and no further investigation or remediation action is necessary.



Based on the results of the deeper soil samples from the area west of the warehouse, the remedial activities were effective, and there is no significant residual contamination at this Site. Clayton recommends the SLIC case be closed with no further investigation or remediation action.

This report prepared by:

4

Joseph D. Moulton Project Consultant Environmental Services

This report reviewed by:

17acre

Decie Y. Boone Environmental Consultant Environmental Services

This report reviewed by:

Michael J Zimmerman, P.E., R.E.A. Senior Project Manager Environmental Services

This report reviewed by:

Jon A. Rosso

Director Environmental Services



December 18, 2006 Clayton Project No. 33104-004583.04



TABLES

# TABLE 1Soil Analytical Results-Area West of WarehouseFormer GE Caral Manufacturing Facility578 Cleveland AvenueAlbany, California

Sample ID	Sample Date	Sample Depth (ft bgs)	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Total Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)
SS-1	5/1/2004	na	na	<5	na	na	12	410	14	280	630	na	na	250	na	na	24	na	4900
B-5	5/1/2004	1.5	na	2200	na	na	3.5	8.6	<0.5	<0.5	3.2	na	na	<1	na	na	<25	na	<1
B-5	5/1/2004	5	na	<5	na	na	<0.5	290	26	34	3.8	na	na	200	na	na	<25	na	30
SB-13-1'	5/25/2006	1	< 3.0	4.6	370	0.43	< 0.25	18	9.8	37	100	1.3	< 1.0	17	1.2	< 0.25	< 0.25	24	170
SB-13-3'	2/17/2006	3	< 2.8	2.2	56	0.38	< 0.23	12	2.9	4.1	4.0	0.018	< 0.92	5.7	< 0.23	< 0.23	< 0.23	20	7.4
SB-13-6'	2/17/2006	6	< 2.4	2.1	63	0.5	< 0.20	14	6.4	3.5	4.9	< 0.019	< 0.81	12	< 0.20	< 0.20	< 0.20	21	12
SB-14-1	5/25/2006	1	8.3	3.9	160	0.39	1.2	59	14	120	720	0.19	5.9	29	0.27	5.2	< 0.25	23	210
SB-14-3'	2/17/2006	3	< 2.1	3.4	100	0.56	< 0.18	14	11	3.1	5.4	0.067	< 0.70	8.9	< 0.18	< 0.18	< 0.18	24	9.2
SB-14-6'	2/17/2006	6	< 2.6	1.9	68	0.52	< 0.21	19	3.4	4.2	4.8	0.03	< 0.85	13	< 0.21	< 0.21	< 0.21	20	17
SB-15-1'	5/25/2006	1	< 3.0	3.2	140	0.46	0.3	22	7.6	78	210	0.16	< 1.0	20	< 0.25	0.66	< 0.25	26	97
SB-15-3'	2/17/2006	3	< 1.7	1.8	77	0.34	< 0.14	13	2.4	3.3	3.8	0.13	< 0.58	5.7	< 0.14	< 0.14	< 0.14	20	6.9
SB-15-6'	2/17/2006	6	< 2.7	5.5	230	0.89	< 0.23	10	6.1	7.6	62	< 0.019	< 0.91	16	< 0.23	< 0.23	< 0.23	32	44
SB-16-1	5/25/2006	1	< 3.0	2.9	210	0.53	< 0.25	15	22	13	18	0.05	< 1.0	14	1.1	< 0.25	< 0.25	24	81
SB-16-3'	2/17/2006	3	< 2.9	1.4	92	0.3	< 0.24	14	3.1	3.2	3.5	< 0.015	< 0.96	6.7	< 0.24	< 0.24	< 0.24	17	7.7
SB-16-6'	2/17/2006	6	< 2.3	2	54	0.5	< 0.19	17	4.8	3.5	4.0	< 0.016	< 0.77	17	< 0.19	< 0.19	< 0.19	22	14
SB-17-1.5	5/25/2006	1.5	< 3.0	4.2	180	0.48	0.65	13	12	44	43	0.076	< 1.0	12	< 0.25	< 0.25	< 0.25	22	290
SB-17-3'	2/17/2006	3	< 2.3	2	120	0.42	< 0.19	12	4.2	7.4	5.0	< 0.014	< 0.76	8.8	< 0.19	< 0.19	< 0.19	18	17
SB-17-6'	2/17/2006	6	< 2.6	2.4	51	0.32	< 0.22	23	2.1	5.7	4.3	0.021	< 0.88	17	< 0.22	< 0.22	< 0.22	27	14
Regional BKG Conc. (LBNL, 2002)		<10	5.5	130	0.42	5.6	58	14	32	7	0.5	<5	68 57	5.1	3	10	46 112	64 149	
Regional BKG Conc. (Bradford et al 1996)			0.0	503	1.5	0.4	122	15	23	27	0.20		57				112	143	
EPA Preliminary	Remediation Goa	l (Industrial)	410	0.25	67,000	1,900	450	450	1,900	41,000	150	310	5,100	20,000	5,100	5,100	67	1,000	100,000
Residential ESL			6.0	5.5	750	4	1.7	58	10.5	225	150	3.7	40	150	10	20	1.0	106.5	600
Commercial/Indu	strial ESL		40	5.5	1,500	8	7.4	58	10.5	225	750	10	40	150	10	40	12	200	600

## Notes:

1) All samples were analyzed by EPA methods 6010B/7471A.

2) mg/kg = milligrams per kilogram or parts per million (by weight).

3) ft bgs = feet below ground surface.

4) Bold concentrations were detected above the reporting limit.

5) < 2.1 indicates the analyte was not detected at or above the reporting limit of 2.1 mg/Kg.

6) ESL = SF Bay RWQCB Environmental Screening Level, February 2005.

7) na - Data not available.

# TABLE 2 Soil Analytical Results - Excavated Soil and Backfill Samples Former GE Caral Manufacturing Facility 578 Cleveland Avenue Albany, California

	Excavated Soil Waste	Backfill Sample from
	Profile Sample	Quarry
Sample ID	1-4 Point Comp.	RGW Backfill 1
Sample Date	10/4/2006	10/9/2006
Antimony (mg/Kg)	< 3.0	< 2.0
Arsenic (mg/Kg)	2.9	5.9
Barium (mg/Kg)	120	270
Beryllium (mg/Kg)	0.39	< 0.50
Cadmium (mg/Kg)	0.41	< 0.50
Total Chromium (mg/Kg)	13	9.8
Cobalt (mg/Kg)	4.2	5.8
Copper (mg/Kg)	34	11
Lead (mg/Kg)	56	8.2
Mercury (mg/Kg)	0.26	NS
Molybdenum (mg/Kg)	1.2	< 0.99
Nickel (mg/Kg)	14	8.7
Selenium (mg/Kg)	< 0.25	< 2.0
Silver (mg/Kg)	< 0.25	< 0.99
Thallium (mg/Kg)	< 0.25	< 0.99
Vanadium (mg/Kg)	20	27
Zinc (mg/Kg)	100	37

# Notes:

1) All samples were analyzed by EPA methods 6010B/7471A.

2) mg/kg = milligrams per kilogram or parts per million (by weight).

3) Bold concentrations were detected above the reporting limit.



FIGURES









PHOTOS

Clayton Project No.	Description	Northern view of excavation area prior to remedial activities	1
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 2 2006
Clayton Project No.	Description	Southern view of excavation area prior to remedial activities	2
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 2 2006

		<image/>	
Clayton Project No.	Description	Northern view of excavation area following asphalt removal	3
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 2 2006
Clayton Project No.	Description	View of steel pipe located in excavation area	4 Photo Doto
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 2 2006



No.	Decemption		U
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 2 2006

		<image/>	
Clayton Project No.	Description	Northern view of the clay pipe located in the excavation area	7
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 2 2006
No.	Description	the property	8 Photo Date
004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	October 3 2006



No.	Description	View of a drainage pipe located in the excavation area	9
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 3 2006



Clayton Project No.	Description	View of excavation area following soil removal	10
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 4 2006

No.	Description	View of the backfilling of the excavation area	11				
004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	October 26 2006				
Clayton Project							
No.	Description	Backfilling of the excavation area prior to completion	12 Photo Data				
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 26 2006				

		<image/>	
Clayton Project No.	Description	Replacing the removed clay pipe	13
33104- 004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	Photo Date October 26 2006
		<image/>	
No.	Description	The excavation area following the backfilling activities	14 Photo Data
004583.04	Site Name	GE Caral, 578 Cleveland Avenue, Albany, California	October 26 2006



# **APPENDIX A**

# **REMEDIAL ACTION WORKPLAN DATED AUGUST 14, 2006**



August 14, 2006

Jerry Wickham Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Clayton Project No. 331040-004583.03

# Subject: Remedial Action Workplan SLIC Case No. RO0002874, GE/Imatron/Caral Manufacturing 578 Cleveland Avenue, Albany, California

Dear Mr. Wickham:

Clayton Group Services, Inc., (Clayton) *a Bureau Veritas company*, has prepared this Remedial Workplan on behalf of GE Healthcare (GE) for the subject facility in response to your July 7, 2006 letter.

# Background

The Facility location is identified in Figure 1. In February and May 2006, Clayton collected soil samples onsite at depths of 1, 3 and 6 feet below grade surface (bgs) for borings SB-1 through SB-17 identified on Figure 2. Based on the sample results, Alameda County requested that GE conduct remedial action and confirmation sampling west of the warehouse. Clayton, GE, and Alameda County met at your offices on August 3, 2006 to discuss the scope of the remedial action, which is presented in this Workplan.

# Scope of Work

Clayton proposes to excavate soil along the west side of the warehouse building to a depth of 3 feet bgs in the area shown in Figure 3. The overall dimensions of the excavation are estimated to be approximately 100 feet long x 10 feet wide x 3 feet deep for an estimated removal of 3,000 cubic feet or 111 cubic yards. We intend to use a limited access rig that is on tracks to address some of the physical site restrictions listed below.

The excavated soil will be stockpiled in the parking lot on visqueen pending offsite disposal. Based on the existing data, the soil is non-hazardous and will be disposed at an appropriate non-hazardous waste landfill facility. The excavation will be backfilled with clean soil from a quarry.

As previously reported, metals concentrations for the deeper samples from 3 and 6 feet bgs were lower than concentrations for the shallow 1 foot bgs samples. Therefore, confirmation samples should not be

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Mr. Jerry Wickham Alameda County Environmental Health August 14, 2006 Page 2 Project No. 33104-004583.03

necessary after excavating the upper three feet of soil west of the warehouse. We propose to use the existing data for the 3 and 6 feet bgs samples as confirmation sample data.

# **Physical Site Restrictions**

Below is a summary of physical site restrictions that Clayton will address during the Remedial Action.

- The excavation area is not easily accessible from the possible access points: the street and parking lot on the east side of the warehouse are five to six feet higher in elevation; a gate and trees close to the northwest end of the building prevent equipment access from the North Yard; and railroad tracks to the west are in active use and within a railroad easement. Equipment will access the site from the parking lot on the east side of the warehouse.
- 2. Truck and loader size is limited by the 10-foot width of the area available for turning equipment at the southwest corner of the building.
- 3. Based on the underground utility survey we performed in February 2006, a buried electrical line runs to a pole next to the west side of the warehouse between soil borings SB-14 and SB-15 (Figure 3). We will hand excavate around the buried line but may have to leave a small area of soil in place around the pole to prevent impacting the structural footing of the pole and to avoid electrical shock hazards.

# **Remedial Action Report**

After the field activities are completed, Clayton will document the Remedial Action and offsite disposal of soil, and submit the report to Alameda County for final approval and closure of the SLIC case.

# Closing

Please review the Workplan and call me at (925) 426-2681 or Mr. Richard Rinck of GE at (650) 827-7729 if you have any questions.

Sincerely,

Michael Zimmerman, P.E., R.E.A. Senior Project Manager Environmental Services

# Enclosure

cc: Richard Rinck, GE Healthcare, 389 Oyster Point Blvd. Suite 8, South San Francisco, California 94080









# **APPENDIX B**

# ALAMEDA COUNTY LETTER DATED AUGUST 18, 2006

# ALAMEDA COUNTY HEALTH CARE SERVICES



AGENCY DAVID J. KEARS, Agency Director

> ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

August 18, 2006

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August Blasquez and Paul Dresnick TRS P.O. Box 66571 Scotts Valley, CA 95067

August Blasquez and Celia Villar 7026 Santa Teresa Blvd. San Jose, CA 95139

Subject: SLIC Case No. RO0002874, GE Imatron/Caral Manufacturing, 578 Cleveland Avenue, Albany, CA

Dear Richard Rinck, August Blasquez and Paul Dresnick TRS, and Celia Villar:

Alameda County Environmental Health (ACEH) staff has reviewed the Spills, Leaks, Investigations, and Cleanups (SLIC) case file for the above-referenced site and the report entitled, "Remedial Action Work Plan," dated August 14, 2006, prepared on your behalf by Clayton Group Services, Inc. The Work Plan proposes to excavate soil along the west side of the warehouse building to a depth of 3 feet bgs to remove and dispose of soils containing elevated concentrations of metals. An estimated 111 cubic yards of soil would be transported off-site for disposal. The excavated soil would be replaced by clean fill. We generally concur with the proposed scope of work provided that the technical comments below are addressed during the remedial action.

We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below. Please provide 72-hour advance written notification to this office (e-mail preferred to <u>jerry.wickham@acgov.org</u>) prior to the start of field activities.

# TECHNICAL COMMENTS

1. Excavation Around Structures. The area west of the warehouse contains several structures including the compressor receiver tanks, electrical pole, and buried electrical line. Although removal of soil to a depth of 3 feet may not be feasible, we request that surface soil around the structures and the edges of the building be removed to the maximum extent that is safe and practicable by hand excavation. Please present the results of the remedial excavation in the Remedial Excavation Report requested below.

Richard Rinck August Blasquez and Paul Dresnick TRS August Blasquez and Celia Villar August 18, 2006 Page 2

# TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

• December 19, 2006 – Remedial Excavation Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

Effective January 31, 2006, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and <u>other</u> data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

Richard Rinck August Blasquez and Paul Dresnick TRS August Blasquez and Celia Villar August 18, 2006 Page 3

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

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If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jèrły Wickbam Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Michael Zimmerman Clayton Group Services, Inc. 6920 Koll Center Parkway Pleasanton, CA 94566

> Donna Drogos, ACEH Jerry Wickham, ACEH File



# APPENDIX C

# NON-HAZARDOUS WASTE MANIFESTS

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11. Waste Shipping Name and Description		1,9 . 1,	• • • • •	1	12. Cont	ainers	13. Total	14. Unit	
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D. Additional Descriptions for Materials Listed AL Profile # 55394	Dove 1200			E. Hand	lling Code	s for Wo	astes Listed Abov	e	
15. Special Handling Instructions and Additional Site: Ge Caro 578 Clev Albury C	Information 1 cla~d Aue A 94710			I					
16, GENERATOR'S CERTIFICATION: I certify the	materials described abov	e on this manifest are no	nt subject to federal req	gulations for	r reporting	proper di	isposal of Hazardo	us Waste	
Printed/Typed Name Clayton The Moulton agent	Group Sorvi	Cal Signature	KU-	***			Month Day	, Yec	
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18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature	J		0		Month Day	y Yec	
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I inted by J. J. KELLER & ASSOCIATES, INC. renah, WI 54957-0368	ORIGINAL -	RETURN TO GEI	VERATOR	100	<u>~~~</u>		<u>и и из</u> е 12-в	LC-N	

ASTER-Altamont Landfill &Resource Recovery Original Altamont Pass Road Ticket# 718814 ore, CA, 94551 25)455-7300

rc Environment Carrier GEN Altamont Generic Vehicle# 9050919-W1 Volume Container DOC 8168 TR-89 License# Billing # 0038257 Gen EPA 10

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ng described commodity was weighed, measured or counted by a weighmaster, ate, who is a recognized authority of accuracy, as prescribed by Chapter 7 Division 5 of the California Business and Professions Code, administered by the the California Dept. of Food and Agriculture.

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ASTER-Altemont Landfill SResource Recovery (trigina) Altamont Pass Koad " Ticket# 718596 ore, CA, 94651 25 ) 455-7 3422 co Environment Carrier - GEM-Altamont Generic Vehicle# 9050919-WT Volume Lontainer BUL BIGE TR-B9 Licenset 6111ing # - 8038257 Gen EPA 10 II CoverTMRC Envir GE Caral) Caral uele Deputy Weighmasterinbound Gross 67480 15 ale: indoon Ken sr Tare 33160 ib ken sr Net 34320 lb 1045 17.16 (R) y Έ. UUR NALE (A. ÁBED DAR. 17.16 Tons Albariy

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NON-HAZARDOUS WASTE MANIFEST	1. Genérator's US EPA ID No.	Manifest Document No. N. it D. O. 2	2. Poge 1 of	10/2	s loog	
3. Generator's Name and Mailing Address GE Healthcare, 389	Oysta Paint Suite 8					
4. Generator's Phone (650) 827	- 7729 authi Rich 1	Rinck		/ 0L		
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Device and Envillent Name	. US EIA		C Encilibr's Pl			
Waste Management 10840 Altamint Pass 1	A I tament weißter Runge		925	5.455	-7300	
11. Waste Shipping Name and Description		· · · · · ·	12. (	Containers	13. Totol	1
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16. GENERATOR'S CERTIFICATION: 1 contin	y the moterials described above on this manifest are	not subject to federal r	regulations for repo	ning proper r	disposal of Hazardou	n Wo
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20. Facility Owner or Operator: Certification	of receipt of waste materials covered by this r	nanifest except as no	ted in Item 19.			
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and the second second ASTER-Arcagone-Gendfill &Resource Recovery Origina: Altamont Pass Road Ticket# 718689 ore, CA, 94551 25)455-7393 re Environment Carrier - GEN Altamont Generic Veniclet 9A29180 Velume Container PIOS TRUCKING 57 Licensei Billing 4 - 0038257 Gen EPA LU 1: Cover MRC Env. GE Cerai) Caral cale Deputy WeighmasierInbound Bross 70446 10 blet indour ken er 33680 is Tare N 6-1 ken sr 36760 10 1046 s Oty DOM Hace Tax Amount Urigin 18.38 Tons Albany fotel far JATAL TICHAR ig described commodity was weighed, measured or counted by a weighmaster. ate, who is a recognized authority of accuracy, as prescribed by Chapter 7 ivision 5 of the California Business and Professions Code, administered by the he California Dept. of Food and Agriculture. بسسين كمركم كمجم إسماس

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_	3. Generator's Name and Mailing Address Get (dex.(46cm/4, 389 07)	star Point Suite 8	. 10.10.04		<u> </u>	621000	
	South Sanfrancisco 4 Generator's Phone (Cmm) 837	CA 97080	2 sector				
	5. Transporter 1 Company Nome	6. US EP/	A ID Number	A. Transport	er's Phone	·····	
	7. Transporter 2 Company Name	121551	A ID Number	B. Transport	er's Phone	<u>p t t Z S</u>	
	9. Designated Facility Name and Site Address	10. US EP4	A ID Number	C. Facility's I	hone		·
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	D. Additional Department for Abertacials Listed Ab			F Handling	· · ·		
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	15. Special Handling Instructions and Additional	Information		<u>.</u>			
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and the second -AltaWont-Elenstill &Resource Recovery Original Tickets 718588 ont Pass Road CA, 34551 5-7300 vironment Carrier BEN Altasont Generic Vehicle# 3050919-WT Volume Container DOC 8188 18-89 Licenseä Billing 4 0038857 Gen EPA 1D over"NRC Env" GE Carel) 68140 Lb Deputy WeighmasterInbound Bross Tare 33160 Ib inboun RR0JAS1841 Het 34980 36 Outbe pratte 17.49 Tons Diy UDA Rate Tax Amount Drigin Albany 7,49 Tons .

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ng described commodity was weighed, measured or counted by a weighmaster, ate, who is a recognized authority of accuracy, as prescribed by Chapter 7 Division 5 of the California Business and Professions Code, administered by the the California Dept. of Food and Agriculture.

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	WASTE MANIFEST	1.1	<u></u>		Document No.	of		12 <u> </u>	_5 0w	
	3. Generator's Name and Mailing Address	ala Porta da	1. J. T. 4							
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ŀ	4. Generator's Phone ( ) 677-7	<u>7774 ATT</u>	<u>т қел</u> 6. US	<u>ドロションでん</u> 5 EPA ID Nu	mber	A. Tro	nsporter's	Phone		
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Sector Contractor Contractor المتعقية المتعاطين المتعاط 1 -Altacont-Bandfill &Resource Recovery Original Ticket# 718581 int Pass Road )A, 94551 3-7300 /ironment Carrier ... GEN Altamont Generic Vehicles 9099180 Volume Container PIOS TRUCKING 57 License# Billine # 0038257 Gen EPA ID aver"MRC Env" GE Carel) Deputy Weighmasterinbound Bross 67640 15 Inboun RRCJAS1341 ਿੰਗ ਦ 33680 15 33960 15 Outpo praito Nei Тона 16.98 lty UDA Rate fax Amount Origin Albany 5.98 Tons -Total Tax ig described commodity was weighed, measured or counted by a weighmaster, ate, who is a recognized authority of accuracy, as prescribed by Chapter 7 ivision 5 of the California Business and Professions Code, administered by the he California Dept. of Food and Agriculture.

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	3. Generator's Name and Mailing Address GE Healthcare, 389 Oyst South Saw Francisco 4. Generator's Phone (G50) 82777 5. Transporter 1 Company Name Pio's Trucking (UE) 7. Transporter 2 Company Name	er Point BLVD, Suite 24 94060 29 Arrn: Kich 6. USEP Bilbr I. N/A. 8. USEP	8 <u>Rinclc</u> A ID Number	A. Tran	sporter's F	hone 236	- 77 23	
			· · · · · · · · · · · · · · · · · · ·					
	9. Designated facility Name and Site Address Was te Management Altan 108610 Altament Pass R hive charge CA Syster	cont Land Eill Road I. N. /A.			nys Phone 725	, <i>५६</i> -९	57300	
	11. Waste Shipping Name and Description				12. Cont	oiners	13. Total	14. Unit
	<sup>a.</sup> Non Hazarous waste,	Solid (soil) - Class 1	I Cover		00 1	iype	Quantity	C.Y
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	Site: Ge Carol ; 578 <u>Albury</u> , CA 9 15. Special Handling Instructions and Additional In	Cleveland Ave 4710 Iformation						
	16. GENERATOR'S CERTIFICATION: 1 certify the m	naterials described above on this manifest o	are not subject to federal re	gulations fo	or reporting	biobei q	lisposal of Hazardov	rs Waste.
▼ T	Printed/Typed Name Clayton Toe Moulton agent 17. Transporter 1 Acknowledgement of Receipt of J	Group Serves Signature	Me_				Month Day	5 <u>0</u> 6
RANSP	Printed/Typed Name	Signature	Diegoz	Ac	ott		Month Day	`  <sup>Year</sup>
ORTE	18. transporter 2 Acknowledgement of Receipt of A Printed/Typed Name	Nateriais Signature					Month Day	Year
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	20. Facility Owner or Operator: Certification of rec	eipt of waste materials covered by thi	s manifest except as not	ed in Item	19.	-	·	
Ý	Printed/Typed Name	Signature	. <u>.</u> .		<u>. , , , , , , , , , , , , , , , , , , ,</u>		Month Day	Year
Prin Nee	ed by J. J. KELLER & ASSOCIATES, INC. 1ah, WI 54957-0368	ORIGINAL - RETURN TO	GENERATOR				<u>12-B</u>	LC-M

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA II N. / A.	D No.	Manifest ocument No.	2. Page of	1	10	25/06		
3. 4.	Generator's Name and Mailing Address GG Health care, 3B9 Qy South Sam Francisco, CA Generator's Phone (650) 827-7	ster-Point Blvd, Su + 94080 1729 ATTN :	ute 8, RICH RINCK							
5.	Transporter 1 Company Name Pio's Trucking / 0.8 c B	ibbs N.L.	US EPA ID Numi		A. Tron ( 5	sporter's P 516) 2	hone 36-	7723		
7.	Transporter 2 Company Name	8. 	US EPA ID Numi		B, Tran	sporter's P	hone			
9.	Designated Facility Name and Site Address Wash Management Altamon 10340 Altamont Pass Road LNETMURE, CA 94551	vt Landfill N 1	US EPA 10 Numi		с. гасі <b>9</b>	25 4	55-	7300		
11	. Waste Shipping Name and Description					12. Cont No.	ainers Type	13. Total Quantit	,	ر ال /Wt
a.	Non Hazardous Waste, Soliz	d (soil) - Clas	s II Cover			().D.	·		1.8	<u>C'</u>
ь.									•	
с.						•••				
d.										
D.	Additional Descriptions for Materials Listed Ab	Profile #	55394200		E. Han	dling Code	es for W	astes Listed A	\bove	
15	i. Special Handling Instructions and Additional SITE:	Information								
	Ge	caral								
	57	B Cleveland A	we.							
	A	Ibany, CA 94710	)							
16	. GENERATOR'S CERTIFICATION:   certify the	materials described above on	this monifest are not sub	ject to federal i	egulations f	or reporting	proper -	disposal of Ha	ordous	Wo
16	5. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name Clay M:Le Zimmerman ague	materials described above on the Grup Service In 66 Heatwhare	this manifest are not sub Signature	iject to federal i	egulations f	or reporting	proper	disposal of Ha: Month	ordous Day 2:5	wo y 0
16	5. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name Clay M:LL ZIM NORMAN agut '. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name CRACIS LAM	materials described above on the GroupSoven In 66 Heathhare Materials -UN	this manifest are not sub Signature Signature	iject to federol i	egulations f	or reporting	proper (	disposal of Haz Month 1 - 0 Month -	ordous Day <u>2-55</u> M 5 Day	wo y i 0 2 y
16 17 18	5. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name M:LL ZIM NCCMM GfW 7. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name CRACES LAM 1. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	materials described above on FM Grup Seven In 66 Heathharc Materials -UN Materials	this manifest are not sub Signature Signature Signature	ject to federal i	egulations f	MUC	proper (	disposal of Ha: Month Nonth Month Month	ordous Day 2: 5 M 5 Day Day	w。 ; i o ; i o ; , , , , , , ,
16 17 18	5. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name Mille Zimmarman agut 7. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name CRACE LAM 3. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name Printed/Typed Name	materials described above on <i>fM Grup Sovem</i> <i>M 66 Heathhare</i> Materials <i>M M</i> Materials	this manifest are not sub Signature Signature Signature	ject to federol i	agulations f	UMU M	proper d	disposal of Ha: Month 2 • 0 Month • •	Day Day 2.5 Doy Day	
16 17 18 19 20	5. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name Clay Mille Zimmerman agut 7. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name CRACIS LAM 8. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name 9. Discrepancy Indication Space 1. Facility Owner or Operator: Certification of re	materials described above on fM GADSAMA Materials -UN Materials	this manifest are not sub Signature Signature Signature	1 0 0	ted in Item	MUL 19.		disposal of Ha: Month Nonth Month	ardous Day 2.5 M Day	vo r j o r y r

Ple	esse print or type			5 Vor					
(Fo	orm designed for use on elite (12-pitch) typewriter.) NON-HAZARDOUS	1. Generator's US E	EPA ID No.	Manifest	2. Pag	je 1			
	WASTE MANIFEST	<u>ki - f - A</u>		• N	• <u>•</u> of	į	19/	_5 <i> 0</i> 6	
A	GA beatthcast 340 wh	L. C.S. CH and.	3. TE 4.						
	Such See The Cling of	auon 0							
	4. Generator's Phone (, 5) 827-7	729 ATTN	<u>I RICH RH</u>	<u>JCK</u>					
	Pie's Trucking at 5	oks N		ID NUMBER	. A. Ira	nsporter's H 5 ⇔ ∖	'none Sole i	1723	
	7. Transporter 2 Company Name	8.	US EPA	ID Number	B. Tra	nsporter's P	hone		
	9. Designated Facility Name and Site Address	<u>l_</u> 10	 US EPA	ID Number	 C. Fac	ility's Phone	3		
	Wasy many prove And an	e s sallat					-		
	In 12 A WE A ST Pass Road	Ι.	1 8		40°		200	ده. د آ	
	Liver Angel C. CA 44580	i.	.• ! • M • • •	· · · · ·	•	12. Cont	ainers	13.	
						No.	Туре	Total Quantity	w
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	d.								
	d. D. Additional Descriptions for Materials Listed Abo	•• **	: # 55314	26:2	E. Har	 dling Code	es for Wo		e
	d. D. Additional Descriptions for Materials Listed Abo 15. Special Handling Instructions and Additional In	ve Zro 4, 14	: = 55314	269	E. Har	dling Code	es for Wo		ę
	d. D. Additional Descriptions for Materials Listed Abo 15. Special Handling Instructions and Additional In SITE 1	ve 2704.14	: * 55314	260	E. Har	dling Code	es for Wo	sstes Listed Abov	e
	d. D. Additional Descriptions for Materials Listed Abo 15. Special Handling Instructions and Additional In SITE: GE C	ve 204 iformation	: * 55314	20:2	E. Har	dling Code	is for Wo		e
	d. D. Additional Descriptions for Materials Listed Abo 15. Special Handling Instructions and Additional In SITE: GE C 575	ve Produce Iformation Concert Concert	c ¥ 55374	260	E. Har	dling Code	. es for Wo		e
	d. D. Additional Descriptions for Materials Listed Abor 15. Special Handling Instructions and Additional In SITE: GE C 575 All	ve Product Information Carriel Charven and Charven and Charven and	4 * 55394 4 v.c 710	260	E. Har	dling Code	s for Wo	sstes Listed Abov	e
	d. D. Additional Descriptions for Materials Listed Above 15. Special Handling Instructions and Additional In SITE: GE C 575 Although 16. GENERATOR'S CERTIFICATION: 1 certify the m	ve Formation Carrol Chevronae project A 947 materials described above	4.4.0. 710 2 on this monifest ore	Z.G.C.	E. Har	dling Code	. des for Wo	astes Listed Abov	e
	d. D. Additional Descriptions for Materials Listed Above 15. Special Handling Instructions and Additional In SITE: GE C 575 Althen 16. GENERATOR'S CERTIFICATION: 1 certify the m Printed/Typed Name	ve 2004.14 Iformation Carriel Cheven and or good State aterials described above or Grap State	t ≠ 55374 Av(c . 710 Signature	200	E. Har	dling Code	. es for Wo	sposal of Hazardee Manth Day	e us Wo
	d. D. Additional Descriptions for Materials Listed Above 15. Special Handling Instructions and Additional In SITE: GE C 575 Althe 16. GENERATOR'S CERTIFICATION: 1 certify the m Printed/Typed Name Attributed States and the formation of	ve 2004 Information Carriel Chevrense C	Ave Ave 710 Signature	200	E. Har	dling Code	roper d	sstes Listed Abov	e vs Wi
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	d. D. Additional Descriptions for Materials Listed Abover 15. Special Handling Instructions and Additional In SITE: GE C 575 Althen 16. GENERATOR'S CERTIFICATION: I certify the m Printed/Typed Name Material Constant of the formation of	ve Statut Information Cheven and Cheven and Cheve	Avec. 710 2 on this monifest are Signature Signature Signature	Z.O.S	E. Har	dling Code	proper d	isposal of Hazardoo Manth Day Month Day	e e
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# APPENDIX D

# LABORATORY ANALYTICAL DATA SHEETS

#### CHAIN OF CUSTODY Page / of / Curtis & Tompkins, Ltd. Analytical Laboratory Since 1878 Analysis 2323 Fifth Street Berkeley, CA 94710 C & T LOGIN #: 189855 (510) 486-0900 Phone (510) 486-0532 Fax Sampler: Joe Moulton Project No.:33/04-004583.03Report To:MilleZimmermanProject Name:GE HeiltheareDivisionCompany:ClaytonGep.ServicesProject P.O.:Telephone:9254262600x610 4 Fax: 9254260106 Turnaround Time: 48 L S Matrix Preservative NY Water Waste H₂SO₄ HNO₃ Lab Sampling Date Soil # of 러 Containers 표 # of ЫÖ Sample ID. No. Time 1-4 Point Camp. 10/04/06@13:40 X 3 X SAMPLE RECEIPT RECEIVED BY: Notes: **RELINQUISHED BY:** ntact Cold 10/4/00 2;15pm 10/4/06 18:15. E.M On Ice Ambient DATE / TIME AU Preservative Correct? Yes No N/A DATE / TIME DATE / TIME DATE / TIME DATE / TIME



		Lead	
Lab #:	189855	Location:	GE Healthcare Caral
Client:	Clayton Group Services	Prep:	WET
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	118578
Field ID:	1-4 POINT COMP.	Sampled:	10/04/06
Matrix:	WET Leachate	Received:	10/04/06
Units:	ug/L	Prepared:	10/19/06
Diln Fac:	10.00	Analyzed:	10/19/06
Type Lab ID	Result	RL	
SAMPLE 189855-0	01 4,800	150	
BLANK QC360941	ND	150	



20 10.00

### Batch QC Report

MSD

QC360945

10,000

			1	Lead						
Lab #:		189855		Location:		GE Healt	hcare	Cara	al	
Client	:	Clayton Group Services		Prep:		WET				
Project#:		STANDARD		Analysis:		EPA 6010B				
Analyte:		Lead		Batch#:		118578				
Field	ID:	1-4 POINT COMP.		Sampled:		10/04/06				
MSS La	b ID:	189855-001		Received:		10/04/06				
Matrix	:	WET Leachate		Prepared:		10/19/06				
Units:		ug/L		Analyzed:		10/19/06				
P										
Type	Lab ID	Spiked	R	esult	%REC	Limits	RPD	Lim	Diln	Fac
BS	QC360942	2,000	1	,998	100	80-120			1.000	
BSD	QC360943	2,000	1	,990	100	80-120	0	20	1.000	
MS	QC360944	]	NA							

15,110

103

70-120 4



#### CASE NARRATIVE

Laboratory number: Client: Location: Request Date: Samples Received: 189855 Clayton Group Services GE Healthcare Caral 10/04/06 10/04/06

This hardcopy data package contains sample and QC results for one three-point soil composite, requested for the above referenced project on 10/04/06. The samples were received on ice and intact.

#### Metals (EPA 6010B and EPA 7471A):

No analytical problems were encountered.

EPA 6010B

EPA 6010B

	Califo	rnia T	itle 26 Meta	ls		
Lab #:	189855		Project#:		STANDARD	
Client:	Clayton Group Services		Location:		GE Healthcare	e Caral
Field ID:	1-4 POINT COMP.		Diln Fac:		1.000	
Lab ID:	189855-001		Sampled:		10/04/06	
Matrix:	Soil		Received:		10/04/06	
Units:	mg/Kg		Analyzed:		10/05/06	
Basis:	as received					
Analyte	Result	RL	Batch# Prepar	red	Prep	Analysis
Antimony	ND	3.0	118137 10/04/	06	EPA 3050B	EPA 6010B
Arsenic	2.9	0.25	118137 10/04/	06	EPA 3050B	EPA 6010B
Barium	120	0.50	118137 10/04/	06	EPA 3050B	EPA 6010B
Beryllium	0.39	0.10	118137 10/04/	06	EPA 3050B	EPA 6010B
Cadmium	0.41	0.25	118137 10/04/	06	EPA 3050B	EPA 6010B
Chromium	13	0.50	118137 10/04/	06	EPA 3050B	EPA 6010B
Cobalt	4.2	1.0	118137 10/04/	06	EPA 3050B	EPA 6010B
Copper	34	0.50	118137 10/04/	06	EPA 3050B	EPA 6010B
Lead	56	0.15	118137 10/04/	06	EPA 3050B	EPA 6010B
Mercury	0.26	0.020	118172 10/05/	06	METHOD	EPA 7471A
Molybdenum	1.2	1.0	118137 10/04/	06	EPA 3050B	EPA 6010B
Nickel	14	1.0	118137 10/04/	06	EPA 3050B	EPA 6010B
Selenium	ND	0.25	118137 10/04/	06	EPA 3050B	EPA 6010B
Silver	ND	0.25	118137 10/04/	06	EPA 3050B	EPA 6010B
Thallium	ND	0.25	118137 10/04/	06	EPA 3050B	EPA 6010B

0.50

1.0

118137 10/04/06 EPA 3050B

118137 10/04/06 EPA 3050B

Vanadium

Zinc

20

100

	California T	itle 26 Metals	
Lab #:	189855	Location:	GE Healthcare Caral
Client:	Clayton Group Services	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Туре:	BLANK	Diln Fac:	1.000
Lab ID:	QC359038	Batch#:	118137
Matrix:	Soil	Prepared:	10/04/06
Units:	mg/Kg	Analyzed:	10/05/06
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

California Title 26 Metals							
Lab #:	189855	Location:	GE Healthcare Caral				
Client:	Clayton Group Services	Prep:	EPA 3050B				
Project#:	STANDARD	Analysis:	EPA 6010B				
Matrix:	Soil	Batch#:	118137				
Units:	mg/Kg	Prepared:	10/04/06				
Basis:	as received	Analyzed:	10/05/06				
Diln Fac:	1.000	_					

Type: BS	Lab ID:	QC359	039	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	94.30	94	80-120
Arsenic	50.00	46.54	93	80-120
Barium	100.0	98.91	99	80-120
Beryllium	2.500	2.561	102	80-120
Cadmium	10.00	9.977	100	80-120
Chromium	100.0	96.86	97	80-120
Cobalt	25.00	23.30	93	80-120
Copper	12.50	11.81	94	80-120
Lead	100.0	90.81	91	80-120
Molybdenum	20.00	20.03	100	80-120
Nickel	25.00	23.18	93	80-120
Selenium	50.00	46.77	94	80-120
Silver	10.00	9.009	90	80-120
Thallium	50.00	45.60	91	80-120
Vanadium	25.00	24.11	96	80-120
Zinc	25.00	24.72	99	80-120

Туре:	BSD	Lab ID	: QC359	040			
A	nalyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		100.0	92.63	93	80-120	2	20
Arsenic		50.00	46.15	92	80-120	1	20
Barium		100.0	96.92	97	80-120	2	20
Beryllium		2.500	2.511	100	80-120	2	20
Cadmium		10.00	9.850	98	80-120	1	20
Chromium		100.0	94.98	95	80-120	2	20
Cobalt		25.00	23.00	92	80-120	1	20
Copper		12.50	11.62	93	80-120	2	20
Lead		100.0	89.68	90	80-120	1	20
Molybdenum		20.00	19.90	100	80-120	1	20
Nickel		25.00	22.89	92	80-120	1	20
Selenium		50.00	45.64	91	80-120	2	20
Silver		10.00	8.903	89	80-120	1	20
Thallium		50.00	45.07	90	80-120	1	20
Vanadium		25.00	23.80	95	80-120	1	20
Zinc		25.00	24.37	97	80-120	1	20

	California I	itle 26 Metals	
Lab #:	189855	Location:	GE Healthcare Caral
Client:	Clayton Group Services	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZ	Batch#:	118137
MSS Lab ID:	189656-004	Sampled:	09/25/06
Matrix:	Soil	Received:	09/26/06
Units:	mg/Kg	Prepared:	10/04/06
Basis:	as received	Analyzed:	10/05/06
Diln Fac:	1.000	-	

Type: MS		Lab ID:	QC359041		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.1970	86.96	23.26	27	1-126
Arsenic	2.890	43.48	39.35	84	74-120
Barium	62.31	86.96	133.7	82	53-134
Beryllium	0.2825	2.174	2.275	92	78-120
Cadmium	0.09382	8.696	7.913	90	71-120
Chromium	19.85	86.96	94.06	85	64-120
Cobalt	5.567	21.74	23.56	83	64-120
Copper	6.361	10.87	15.39	83	56-139
Lead	3.457	86.96	73.78	81	57-120
Molybdenum	0.2822	17.39	14.37	81	68-120
Nickel	21.19	21.74	37.75	76	48-132
Selenium	<0.05627	43.48	36.02	83	72-120
Silver	<0.03135	8.696	7.337	84	67-120
Thallium	<0.02211	43.48	35.10	81	69-120
Vanadium	29.22	21.74	45.58	75	55-134
Zinc	23.27	21.74	40.59	80	46-133

Type: MSD	Lab ID:	QC359	042			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	78.13	18.54	23	1-126	12	21
Arsenic	39.06	37.20	88	74-120	4	20
Barium	78.13	136.7	95	53-134	8	20
Beryllium	1.953	2.128	95	78-120	3	20
Cadmium	7.813	7.189	91	71-120	1	20
Chromium	78.13	89.06	89	64-120	3	20
Cobalt	19.53	22.51	87	64-120	4	20
Copper	9.766	15.20	90	56-139	5	20
Lead	78.13	66.50	81	57-120	0	20
Molybdenum	15.63	12.73	80	68-120	2	20
Nickel	19.53	37.57	84	48-132	5	20
Selenium	39.06	33.42	86	72-120	3	20
Silver	7.813	6.845	88	67-120	4	20
Thallium	39.06	31.35	80	69-120	1	20
Vanadium	19.53	43.97	76	55-134	1	20
Zinc	19.53	39.63	84	46-133	3	20

California Title 26 Metals							
Lab #:	189855	Location:	GE Healthcare Caral				
Client:	Clayton Group Services	Prep:	METHOD				
Project#:	STANDARD	Analysis:	EPA 7471A				
Analyte:	Mercury	Basis:	as received				
Type:	BLANK	Diln Fac:	1.000				
Lab ID:	QC359187	Batch#:	118172				
Matrix:	Soil	Prepared:	10/05/06				
Units:	mg/Kg	Analyzed:	10/05/06				
Result	RL						

Result	RL	
ND	0.020	

ND= Not Detected RL= Reporting Limit Page 1 of 1

California Title 26 Metals							
Lab #:	189855	Location:	GE Healthcare Caral				
Client:	Clayton Group Services	Prep:	METHOD				
Project#:	STANDARD	Analysis:	EPA 7471A				
Analyte:	Mercury	Diln Fac:	1.000				
Matrix:	Soil	Batch#:	118172				
Units:	mg/Kg	Prepared:	10/05/06				
Basis:	as received	Analyzed:	10/05/06				

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC359188	0.5000	0.4940	99	80-120		
BSD	QC359189	0.5000	0.5230	105	80-120	6	20

54-154 0

### Batch QC Report

QC359192

MSD

	California Title 26 Metals								
Lab #:		189855		Location:	GE H	ealthcar	e Caral		
Client	:	Clayton Group	Services	Prep:	METH	OD			
Project	t#:	STANDARD		Analysis:	EPA	7471A			
Analyte	e:	Mercury		Diln Fac:	1.00	0			
Field :	ID:	ZZZZZZZZZZ		Batch#:	1181	72			
MSS Lal	b ID:	189851-002		Sampled:	10/0	3/06			
Matrix	:	Soil		Received:	10/0	4/06			
Units:		mg/Kg		Prepared:	10/0	5/06			
Basis:		as received		Analyzed:	10/0	5/06			
Туре	Lab ID	MSS Result		Spiked	Result	%REC	Limits	RPD	Lim
MS	QC359191	0.030	53	0.4386	0.4763	102	54-154		

0.4310

0.4672

101

28

# SEVERN TRENT **STL**

# ANALYTICAL REPORT

Job Number: 720-5866-1

Job Description: RGW-Backfill

For: Bureau Veritas Clayton Group Services, Inc. 6920 Koll Center Parkway Suite 216 Pleasanton, CA 94566

Attention: Mike Zimmerman

itissa Brever

Melissa Brewer Project Manager I mbrewer@stl-inc.com 10/10/2006

Project Manager: Dimple Sharma

# **EXECUTIVE SUMMARY - Detections**

Client: Bureau Veritas

Job Number: 720-5866-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-5866-1	RGW-BACKFILL-1					
		5 9	0 99	ma/Ka	6010B	
Barium		270	0.99	mg/Kg	6010B	
Chromium		9.8	0.99	ma/Ka	6010B	
Cobalt		5.8	0.99	mg/Kg	6010B	
Copper		11	0.99	mg/Kg	6010B	
Lead		8.2	0.99	mg/Kg	6010B	
Nickel		8.7	0.99	mg/Kg	6010B	
Vanadium		27	0.99	mg/Kg	6010B	
Zinc		37	0.99	mg/Kg	6010B	

# **METHOD SUMMARY**

## Client: Bureau Veritas

Description		Lab Location	Method	Preparation Method	
Matrix:	Solid				
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)		STL SF	SW846 80 <sup>-</sup>	15B	
0 0	Ultrasonic Extraction	STL SF		SW846 3550B	
	Silica Gel Cleanup	STL SF		SW846 3630C	
Inductively Coupled Plasma - Atomic Emission Spectrometry		STL SF	SW846 60	10B	
	Acid Digestion of Sediments, Sludges, and Soils	STL SF		SW846 3050B	
Mercury in S	Solid or Semisolid Waste (Manual Cold Vapor	STL SF	SW846 74	71A	
· • • • · · · · · · · · · · · · · · · ·	Mercury in Solid or Semi-Solid Waste (Manual	STL SF		SW846 7471A	

## LAB REFERENCES:

STL SF = STL San Francisco

#### **METHOD REFERENCES:**

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

Client: Bureau Veritas

Job Number: 720-5866-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-5866-1	RGW-BACKFILL-1	Solid	10/09/2006 1306	10/09/2006 1408

# Analytical Data

Client: Bureau Veritas

Job Number: 720-5866-1

Client Sample ID	: RGW-BACKFI	LL-1			
Lab Sample ID: Client Matrix:	720-5866-1 Solid			Date Sampled: 10/09/2 Date Received: 10/09/2	006 1306 006 1408
80	15B Nonhalogenat	ed Organics usi	ng GC/FID -Modified	(Diesel Range Organics)	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8015B 3550B 1.0 10/10/2006 0630 10/09/2006 0824	Analysi Prep Ba	s Batch: 720-14063 atch: 720-14003	Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 30. Final Weight/Volume: 5 Injection Volume: Column ID: PRIMARY	12 g mL
Analyte	Dry	Wt Corrected: N	Result (mg/Kg)	Qualifier RL	
Diesel Range Orga Motor Oil Range C	anics [C10-C28] Organics [C24-C36]		ND ND	1.0 50	
Surrogate			%Rec	Acceptance Limi	ts
o-Terphenyl Capric Acid (Surr)			67 0	50 - 130 0 - 5	

## **Analytical Data**

Client: Bureau Veritas

#### Client Sample ID: RGW-BACKFILL-1

Lab Sample ID:	720-5866-1	Date Sampled:	10/09/2006 1	1306
Client Matrix:	Solid	Date Received:	10/09/2006 1	1408

#### 6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-14065 Brop Botch: 720-14024	Instrument ID:	Varian ICP
Dilution:	1.0	Prep Balch. 720-14034	Initial Weight/Volume:	N/A 1.01 g
Date Analyzed: Date Prepared:	10/10/2006 1149 10/09/2006 1509		Final Weight/Volume:	50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Antimony		ND		2.0
Arsenic		5.9		0.99
Barium		270		0.99
Beryllium		ND		0.50
Cadmium		ND		0.50
Chromium		9.8		0.99
Cobalt		5.8		0.99
Copper		11		0.99
Lead		8.2		0.99
Molybdenum		ND		0.99
Nickel		8.7		0.99
Selenium		ND		2.0
Silver		ND		0.99
Thallium		ND		0.99
Vanadium		27		0.99
Zinc		37		0.99

#### 7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	7471A 7471A 1.0 10/10/2006 0920 10/06/2006 1402	Analysis Batch: 720-14064 Prep Batch: 720-13970	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	FIMS 100 N/A 1.02 g 50 mL	
Analyte	Dry/Wt Corrected	N Result (ma/Ka)	Qualifier	RI	

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.049

Job Number: 720-5866-1

# DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: Bureau Veritas

Job Number: 720-5866-1

## **QC Association Summary**

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-14003					
LCS 720-14003/2-B	Lab Control Spike	Т	Solid	3550B	
LCSD 720-14003/3-B	Lab Control Spike Duplicate	Т	Solid	3550B	
MB 720-14003/1-B	Method Blank	Т	Solid	3550B	
720-5866-1	RGW-BACKFILL-1	Т	Solid	3550B	
Analysis Batch:720-1406	3				
LCS 720-14003/2-B	Lab Control Spike	Т	Solid	8015B	720-14003
LCSD 720-14003/3-B	Lab Control Spike Duplicate	Т	Solid	8015B	720-14003
MB 720-14003/1-B	Method Blank	Т	Solid	8015B	720-14003
720-5866-1	RGW-BACKFILL-1	Т	Solid	8015B	720-14003
<mark>Report Basis</mark> T = Total					
Metals					
Prep Batch: 720-13970					
LCS 720-13970/2-A	Lab Control Spike	т	Solid	7471A	
LCSD 720-13970/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	
MB 720-13970/1-A	Method Blank	т	Solid	7471A	
720-5866-1	RGW-BACKFILL-1	T	Solid	7471A	
Prep Batch: 720-14034					
LCS 720-14034/2-A	Lab Control Spike	Т	Solid	3050B	
LCSD 720-14034/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-14034/1-A	Method Blank	Т	Solid	3050B	
720-5866-1	RGW-BACKFILL-1	Т	Solid	3050B	
Analysis Batch:720-14064	4				
LCS 720-13970/2-A	Lab Control Spike	Т	Solid	7471A	720-13970
LCSD 720-13970/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-13970
MB 720-13970/1-A	Method Blank	Т	Solid	7471A	720-13970
720-5866-1	RGW-BACKFILL-1	Т	Solid	7471A	720-13970
Analysis Batch:720-1406	5				
LCS 720-14034/2-A	Lab Control Spike	Т	Solid	6010B	720-14034
LCSD 720-14034/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-14034
MB 720-14034/1-A	Method Blank	Т	Solid	6010B	720-14034
720-5866-1	RGW-BACKFILL-1	Т	Solid	6010B	720-14034

# <u>Report Basis</u> T = Total

LCS

65

LCSD

66

LCS % Rec

73

Limit

50 - 130

74

LCSD % Rec

RPD Limit LCS Qual LCSD Qual

Acceptance Limits

50 - 130

			Quality Control Results
Client: Bureau	Veritas		Job Number: 720-5866-1
Method Blank -	Batch: 720-14003		Method: 8015B Preparation: 3550B
Lab Sample ID: M Client Matrix: S Dilution: 1 Date Analyzed: 1 Date Prepared: 1	IB 720-14003/1-B olid .0 0/09/2006 2025 0/09/2006 0824	Analysis Batch: 720-14063 Prep Batch: 720-14003 Units: mg/Kg	Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 30.03 g Final Weight/Volume: 5 mL Injection Volume: Column ID: PRIMARY
Analyte		Result	Qual RL
Diesel Range Org Motor Oil Range O	anics [C10-C28] Drganics [C24-C36]	ND ND	1.0 50
Surrogate		% Rec	Acceptance Limits
o-Terphenyl Capric Acid (Surr)		76 0	50 - 130 0 - 5
Lab Control Sp Lab Control Sp	oike/ bike Duplicate Recovery	Report - Batch: 720-14003	Method: 8015B Preparation: 3550B
LCS Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	ID: LCS 720-14003/2-B Solid 1.0 10/09/2006 2052 10/09/2006 0824	Analysis Batch: 720-14063 Prep Batch: 720-14003 Units: mg/Kg	Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 30.05 g Final Weight/Volume: 5 mL Injection Volume: Column ID: PRIMARY
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-14003/3-B Solid 1.0 10/09/2006 2120 10/09/2006 0824	Analysis Batch: 720-14063 Prep Batch: 720-14003 Units: mg/Kg	Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 30.10 g Final Weight/Volume: 5 mL Injection Volume: Column ID: PRIMARY
		<u>% Rec.</u>	

RPD

30

2

Analyte

Surrogate

o-Terphenyl

Diesel Range Organics [C10-C28]

# 10/10/2006

Job Number: 720-5866-1

### Method: 6010B Preparation: 3050B

Instrument ID: Varian ICP Lab File ID: N/A Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Antimony	ND		2.0
Arsenic	ND		1.0
Barium	ND		1.0
Beryllium	ND		0.50
Cadmium	ND		0.50
Chromium	ND		1.0
Cobalt	ND		1.0
Copper	ND		1.0
Lead	ND		1.0
Molybdenum	ND		1.0
Nickel	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Thallium	ND		1.0
Vanadium	ND		1.0
Zinc	ND		1.0

Analysis Batch: 720-14065

Prep Batch: 720-14034

Units: mg/Kg

#### Method Blank - Batch: 720-14034

Lab Sample ID: MB 720-14034/1-A

1.0

Date Analyzed: 10/10/2006 1117

Date Prepared: 10/09/2006 1509

Client Matrix: Solid

Dilution:

Client: Bureau Veritas

**Quality Control Results** 

10	/1	0/	20	06

# **Quality Control Results**

Method: 6010B

Preparation: 3050B

Job Number: 720-5866-1

# Lab Control Spike Duplicate Recovery Report - Batch: 720-14034

LCS Lab Sample ID: LCS 720-14034/2-A		Analysis Batch: 720-14065	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-14034	Lab File ID: N/A
Dilution:	1.0	Units: mg/Kg	Initial Weight/Volume: 1 g
Date Analyzed:	10/10/2006 1120		Final Weight/Volume: 50 mL
Date Prepared:	10/09/2006 1509		
LCSD Lab Sample I	D:LCSD 720-14034/3-A	Analysis Batch: 720-14065	Instrument ID: Varian ICP
Client Matrix:	Solid	Prep Batch: 720-14034	Lab File ID: N/A
Dilution:	1.0	Units: mg/Kg	Initial Weight/Volume: 1 g
Date Analyzed:	10/10/2006 1124		Final Weight/Volume: 50 mL

	<u>% Rec.</u>						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	88	87	80 - 120	0	20		
Arsenic	94	90	80 - 120	4	20		
Barium	99	96	80 - 120	4	20		
Beryllium	95	92	80 - 120	4	20		
Cadmium	92	89	80 - 120	3	20		
Chromium	94	91	80 - 120	4	20		
Cobalt	94	91	80 - 120	4	20		
Copper	98	94	80 - 120	4	20		
Lead	91	88	80 - 120	4	20		
Molybdenum	96	94	80 - 120	3	20		
Nickel	92	89	80 - 120	4	20		
Selenium	92	89	80 - 120	4	20		
Silver	96	93	80 - 120	4	20		
Thallium	94	91	80 - 120	3	20		
Vanadium	96	93	80 - 120	3	20		
Zinc	91	87	80 - 120	4	20		

_ab Control Spike/		

Client: Bureau Veritas

# L

Date Prepared: 10/09/2006 1509

Page 12 of 14

# **Quality Control Results**

Job Number: 720-5866-1

# Client: Bureau Veritas

## Method Blank - Batch: 720-13970

#### Method: 7471A Preparation: 7471A

Lab Sample ID: M Client Matrix: S Dilution: 1. Date Analyzed: 10 Date Prepared: 10	IB 720-13970/1-A olid .0 0/10/2006 0902 0/06/2006 1402	Analysis Prep Bate Units: m	Batch: 720 ch: 720-13 g/Kg	)-14064 970		Instrument ID: FIMS 100 Lab File ID: N/A Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL
Analyte			Result		Qual	RL
Mercury			ND			0.050
Lab Control Sp Lab Control Sp	ike/ ike Duplicate Recovery	Report -	Batch: 72	20-13970		Method: 7471A Preparation: 7471A
LCS Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	ID: LCS 720-13970/2-A Solid 1.0 10/10/2006 0903 10/06/2006 1402	Analysi Prep Ba Units:	s Batch:   7. atch:   720- <sup>-</sup> mg/Kg	20-14064 13970		Instrument ID: FIMS 100 Lab File ID: N/A Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-13970/3-A Solid 1.0 10/10/2006 0904 10/06/2006 1402	Analysi Prep Ba Units:	s Batch: 7 atch: 720- <sup>-</sup> mg/Kg	20-14064 13970		Instrument ID: FIMS 100 Lab File ID: N/A Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL
Analyte		LCS	Rec. LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
we cury		90	90	00 - 110		20

B U R E A U	Clayton Group S A Bureau Veritas REQUEST FOR LA	ervices, Inc. Company ABORATORY	IMPORTANT Page   Date Results Requested: Import for Clayton Use   Rush Charges Authorized? Import for Clayton Lab Projection   Import for Clayton Clayton Lab Projection Import for Clayton Lab Projection   Import for Clayton Clayton Clayton Lab Projection Import for Clayton Lab Projection   Import for Clayton Clayto
VERITAS	ANALT IICAL S		Contraction Purchase Order No.
Company Classes Br	Dept. Cli	ent Services ES.	Name
Mailing Address G (20 4	oll Center Parling #	216	Dept.
City, State, Zip	EN. CA 94506		
Telephone No. 925 12	0 2600 FAX NO. 925	4260106	City, State, Zip
Special instructions and/or speci (method limit of detection, etc.)	ic regulatory requirements:   Soil:	s: Waters: D/A	(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative adde
ice is freservative - 4 point Composite S	Silicu Gel Clewip state are t from CA	Drinking Water hese Groundwater ? Wastewater	
* Explanation of Preservative			
CLIENT SAMPLE IDENTIFICATION	SAMPLED SAMPLE	D MEDIA (specify units)	
RGW Backfill - 0	1 10/9/06 <b>1067</b>	Soil.	
	RUSH		
Collected by: J	e Moulton	(print)	) Collector's Signature:
CHAIN Relinquished by:		Date/Time	Received by: Date/Time
CUSTODY Relinquished by:		Date/Time	Received by: Date/Time
Method of Shipment:			Received at Lab by: 12 MM/KA Date/Timej0/9/
Authorized by:	Da	ite	Sample Condition Upon Receipt: Acceptable Other (explain)
Client Signature NUST     Please return completed form a     Detroit Regional Lab   Atla     22345 Roethel Drive   3380     Novi, MI 48375   Kenni     (800) 806-5887   (800)	Accompany Request) and samples to one of the Clayton ata Regional Lab Chastain Meadows Parkway, Suite 300 esaw, GA 30144 252-9919 400-7500	Group Services, Inc. lab Seattle Regional 4636 E. Marginal W Seattle, WA 98134 (800) 568-7755 (200) 262-7264	bs listed below: 1  Lab 1  Lab 24/4n $7A + 7034/4n$

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Bureau Veritas

Job Number: 720-5866-1

## Login Number: 5866

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
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	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	